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ABSTRACT

This is a compilation of annotations from "Current Index to Journals in Education" for articles relating to energy education. The publications announced relate to energy education by being: (1) instructional materials such as teaching activity guides; (2) teacher resource guides; (3) information sources on energy resources; or (4) school building conservation materials. Information given for each entry includes: (1) ERIC and clearinghouse accession numbers; (2) title; (3) author; (4) descriptors; and (5) annotations. The annotations are descriptive paragraphs which indicate the contents of each article. Over 500 articles are included in this bibliography. Subject and author indices are included to aid the user in locating a particular article in this bibliography. (MR)

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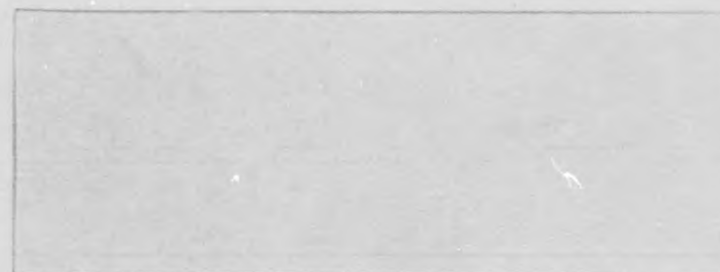
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ENVIRONMENTAL
EDUCATION
INFORMATION
REPORT

ENVIRONMENTAL EDUCATION INFORMATION REPORT

ED168874



THE ERIC SCIENCE, MATHEMATICS AND
ENVIRONMENTAL EDUCATION CLEARINGHOUSE
in cooperation with
Center for Science and Mathematics Education
The Ohio State University

SE 026 992

Compiled by
Milton Rinehart
Robert W. Howe
M. James Kozlow

ENERGY EDUCATION
A Bibliography of Citations
from Current Index to Journals
in Education (CIJE)
1966-1978

Science, Mathematics, and Environmental Education
Information Reference Center
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Preface

COVERAGE

This publication contains annotations and indexes to selected articles announced in Current Index to Journals in Education (CIJE) from 1966 to 1978. The compilation is designed to serve as an effective tool to assist teachers, researchers, curriculum developers, librarians, administrators, and others concerned with science education. Supplements will be issued periodically.

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1. How to Use the Compilation

A. Citation Listing

Each citation is listed by EJ number in numerical order in the Citation Entry section. A sample of a citation is provided below to show how to locate the EJ number, author, source, and other items in the citation.

1. ACCESSION NUMBER: EJ181455

CLEARINGHOUSE ACCESSION NUMBER: EA509904

2. PUBLICATION DATE: MAR 78

3. TITLE: The Energy Audit: What It Can Do For You

4. PERSONAL AUTHOR: Piper, James E.

5. DESCRIPTOR: *Energy Conservation; *Use Studies; *Fuel Consumption; *Institutional Research; Elementary Secondary Education; Higher Education; Utilities; Evaluation Methods; Administrator Guides; Needs Assessment

6. ISSUE: CIJE1978

7. ABSTRACT: The Energy audit provides school administrators with the information necessary to determine what the energy conservation options are and how to implement them. (Author/MLF)

9. JOURNAL CITATION: American School and University; 50; 7; 58, 60, 62, 64

1. ERIC accession number--identification number sequentially assigned to articles as they are processed.
2. Date published.
3. Title.
4. Author(s).
5. Descriptors--subject terms which characterize substantive contents. The major terms are preceded by an asterisk.
6. Issue of Current Index to Journals in Education (CIJE) in which article originally appeared.
7. Informative abstract.
8. Abstractor's initials.
9. Journal where article appeared.

B. How to Locate Desired Materials

Users can identify articles of interest by scanning the citation listings, or using the Subject Index and the Author Index.

SUBJECT INDEX

The Subject Index is designed to enable the user to search for information on either a broad subject or a narrow information concern. An EJ number is included for each document listed under the subject heading. The EJ number refers to the citation entry in the citation section where complete bibliographic information, an annotation of the article and availability information can be found.

A user can also coordinate a search by checking EJ numbers that appear under two or more subject headings. For example, you could check all the EJ numbers under Environmental Education and all the EJ numbers under Secondary Schools. EJ numbers included under both subject headings would include information relevant to environmental education for secondary schools. A check of EJ numbers under Environmental Education and Elementary Schools would provide a list of materials related to environmental education at the elementary school level. Similar techniques could be used to narrow the information desired. You could check Environmental Education, Secondary Schools, and Instructional Materials or Learning Activities to identify some materials for teaching environmental education at the secondary school level.

AUTHOR INDEX

If you desire to locate an article by the name of the author, you can use the Author Index. EJ numbers are provided under the author in the Author Index as in the Subject Index.

Citation Entries

ACCESSION NUMBER: EJ001325
CLEARINGHOUSE ACCESSION NUMBER: AA500116
PUBLICATION DATE: 69 JAN
TITLE: ENERGY-- HEAT AND LIGHT
PERSONAL AUTHOR: VAN VELKINBURGH, ROBERT E.
DESCRIPTOR: CONCEPT TEACHING; *ENERGY; *HEAT; KINETICS;
*LIGHT; PHYSICS; RADIATION; SCIENCE ACTIVITIES; *SCIENCE
EXPERIMENTS; *SCIENTIFIC CONCEPTS
ISSUE: CIJE1969
JOURNAL CITATION: INSTR: 78; 5: 69

ACCESSION NUMBER: EJ008400
CLEARINGHOUSE ACCESSION NUMBER: AA902908
PUBLICATION DATE: 69 FEB
TITLE: A NEW MATERIALS AGE: AN INTERVIEW WITH SIR GEORGE P.
THOMSON, NOBEL LAUREATE
DESCRIPTOR: DEVELOPING NATIONS; *ENERGY; MATERIAL
DEVELOPMENT; *METALS; *NATURAL RESOURCES; *RESOURCE
MATERIALS; RESOURCES; TECHNOLOGY
ISSUE: CIJE1969
ABSTRACT: INTERVIEW REPRINTED FROM THE GENERAL ELECTRIC
*FORUM, SUMMER, 1968.
JOURNAL CITATION: SOC EDUC: 33; 2: 172-174,204

ACCESSION NUMBER: EJ015034
CLEARINGHOUSE ACCESSION NUMBER: SE501088
PUBLICATION DATE: 69 NOV
TITLE: ENGINE EFFICIENCIES AND THE SECOND LAW OF
THERMODYNAMICS
PERSONAL AUTHOR: TOBIN, MARVIN C.
DESCRIPTOR: *COLLEGE SCIENCE; *ENERGY; *ENGINES; HEAT;
*PHYSICS; TEMPERATURE; *THERMODYNAMICS
ISSUE: CIJE1970
JOURNAL CITATION: AMER J PHYS: 37; 11: 1115-1117

ACCESSION NUMBER: EJ016322
CLEARINGHOUSE ACCESSION NUMBER: SE501242
PUBLICATION DATE: 70 JAN
TITLE: PLASMA, THE FOURTH STATE OF MATTER
PERSONAL AUTHOR: ZANDY, HASSAN F.
DESCRIPTOR: *COLLEGE SCIENCE; ENERGY; *MATTER; *NUCLEAR
PHYSICS; PHYSICS
ISSUE: CIJE1970
ABSTRACT: DISCUSSES PLASMA AS A SOURCE OF ENERGY THROUGH
NUCLEAR FISSION PROCESSES, AS WELL AS THE DIFFICULTIES
ENCOUNTERED IN SUCH A PROCESS. STATES THAT 99 PERCENT OF THE
MATTER IN THE UNIVERSE IS PLASMA, AND ONLY 1 PERCENT IS THE
COMMON THREE STATES OF MATTER. DESCRIBES THE FUNDAMENTAL
PROPERTIES OF PLASMA. PLASMA *PINCH, AND PLASMA
OSCILLATIONS. (NR)
JOURNAL CITATION: PHYS TEACHER: 8; 1: 27-31

ACCESSION NUMBER: EJ016599
CLEARINGHOUSE ACCESSION NUMBER: AA505154
PUBLICATION DATE: 69 W
TITLE: INFORMED FORCES FOR ENVIRONMENTAL QUALITY
PERSONAL AUTHOR: SARGENT, FREDERICK II
DESCRIPTOR: ADAPTATION LEVEL THEORY; *ECOLOGICAL FACTORS;
ENERGY; *ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL EDUCATION;
HIGHER EDUCATION; LAND USE; MASS MEDIA; *NATURAL RESOURCES
ISSUE: CIJE1970
ABSTRACT: IN ORDER TO SURVIVE, MAN MUST BE EDUCATED TO COPE
WITH THE PRESENT ECOLOGICAL CRISIS. OUR ENVIRONMENT IS
DETERIORATING RAPIDLY, AND MAN IS THE DESTRUCTIVE AGENT IN
THIS PROCESS. (CR)
JOURNAL CITATION: J ENVIRON EDUC: 1; 2: 50-3

ACCESSION NUMBER: EJ017116
CLEARINGHOUSE ACCESSION NUMBER: NC900120
PUBLICATION DATE: 70 FEB
TITLE: THE ATOMIC AGE CHALLENGES HEALTH EDUCATION
PERSONAL AUTHOR: DONALD, WILLIAM
DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *GUIDELINES; *HEALTH
EDUCATION; *RADIATION EFFECTS; *UNITED STATES ATOMIC ENERGY
COMMISSION

ISSUE: CIJE1970
JOURNAL CITATION: J HEALTH PHYS EDUC RECREATION: 41; 2:
46-7

ACCESSION NUMBER: EJ017209
CLEARINGHOUSE ACCESSION NUMBER: SE501401
PUBLICATION DATE: 70 JAN
TITLE: POWER GENERATION: THE NEXT 30 YEARS
PERSONAL AUTHOR: HOLCOMB, ROBERT W.
DESCRIPTOR: AIR POLLUTION CONTROL; *ENERGY; *ENVIRONMENTAL
EDUCATION; FUEL CONSUMPTION; *FUELS; NATURAL RESOURCES;
PHYSICAL ENVIRONMENT; *POLLUTION; RESEARCH NEEDS; THERMAL
ENVIRONMENT
ISSUE: CIJE1970
ABSTRACT: DISCUSSES POLLUTION PROBLEMS ASSOCIATED WITH
POWER PRODUCTION. ESTIMATES POWER CONSUMPTION IN THE 1980'S
AND THE AVAILABILITY OF FOSSIL AND NUCLEAR FUEL RESOURCES.
EMPHASIZES NEEDED RESEARCH ON AIR POLLUTION, NUCLEAR
POLLUTION, AND THERMAL POLLUTION. (EB)
JOURNAL CITATION: SCIENCE: 167; 3915: 159-160

ACCESSION NUMBER: EJ020644
CLEARINGHOUSE ACCESSION NUMBER: SE501548
PUBLICATION DATE: 70 APR
TITLE: APOLLO 13 LUNAR HEAT FLOW EXPERIMENT
PERSONAL AUTHOR: LANGSETH, M. G.; AND OTHERS
DESCRIPTOR: *AEROSPACE TECHNOLOGY; *ASTRONOMY; ENERGY;
*HEAT; *PHYSICS; *SCIENTIFIC RESEARCH; TEMPERATURE; APOLLO
13
ISSUE: CIJE1970
JOURNAL CITATION: SCIENCE: 168; 3928: 211-217

ACCESSION NUMBER: EJ020653
CLEARINGHOUSE ACCESSION NUMBER: SE501672
PUBLICATION DATE: 70 JAN
TITLE: THE DIRECT CONVERSION OF CHEMICAL ENERGY INTO
ELECTRICITY
PERSONAL AUTHOR: GREAVES, C.
DESCRIPTOR: CHEMISTRY; COLLEGE SCIENCE; *ELECTRIC
BATTERIES; ELECTRICITY; *ENERGY; *PHYSICAL SCIENCES;
SECONDARY SCHOOL SCIENCE; THEORIES; *THERMODYNAMICS
ISSUE: CIJE1970
JOURNAL CITATION: PHYS EDUC: 5; 1: 18-24

ACCESSION NUMBER: EJ020656
CLEARINGHOUSE ACCESSION NUMBER: SE501711
PUBLICATION DATE: 70 MAY
TITLE: NUCLEAR ENERGY: BENEFITS VERSUS RISKS
PERSONAL AUTHOR: JORDAN, WALTER H.
DESCRIPTOR: *COMMUNITY BENEFITS; ELECTRICITY; *ENERGY;
*NUCLEAR PHYSICS; *PUBLIC HEALTH; *RADIATION EFFECTS;
SAFETY; TECHNOLOGY
ISSUE: CIJE1970
ABSTRACT: DISCUSSES THE BENEFITS AS WELL AS THE RISKS OF
NUCLEAR POWER PLANTS. SUGGESTS THAT CRITICS WHO DWELL ON THE
RISKS TO THE PUBLIC FROM NUCLEAR-POWER PLANTS SHOULD COMPARE
THESE RISKS WITH THE PRESENT HAZARDS THAT WOULD BE
ELIMINATED. BIBLIOGRAPHY. (LC)
JOURNAL CITATION: PHYS TODAY: 23; 5: 32-38

ACCESSION NUMBER: EJ021944
CLEARINGHOUSE ACCESSION NUMBER: SE501823
PUBLICATION DATE: MAR '70
TITLE: FUELS AND ENERGY
PERSONAL AUTHOR: CHESTER, P. F.
DESCRIPTOR: BIBLIOGRAPHIES; *BOOK REVIEWS; *BOOKLISTS;
ENERGY; FOREIGN COUNTRIES; FUELS; *PHYSICAL SCIENCES;
*SECONDARY SCHOOL SCIENCE
ISSUE: CIJE1970
JOURNAL CITATION: PHYS EDUC: 5; 2: 66-68

ACCESSION NUMBER: EJ021954
CLEARINGHOUSE ACCESSION NUMBER: SE501835
PUBLICATION DATE: MAR '70
TITLE: THE DIRECT CONVERSION OF SOLAR LIGHT ENERGY INTO

ELECTRICITY

PERSONAL AUTHOR: GREAVES, C.

DESCRIPTOR: *COLLEGE SCIENCE; ELECTRICAL APPLIANCES;
*ELECTRICITY; *ENERGY; INSTRUCTION; *PHYSICS; RADIATION
EFFECTS; *SOLAR RADIATION; SOLAR CELLS

ISSUE: CIJE1970

JOURNAL CITATION: PHYS EDUC; 9; 2; 100-105

ACCESSION NUMBER: EJ022895

CLEARINGHOUSE ACCESSION NUMBER: EA500738

PUBLICATION DATE: MAY-JUN '70

TITLE: ENERGY DISTRIBUTION IN THE OPEN PLAN

DESCRIPTOR: *BUILDING DESIGN; *ELECTRICAL SYSTEMS; *ENERGY;
*OPEN PLAN SCHOOLS; *UTILITIES

ISSUE: CIJE1970

ABSTRACT: DISCUSSES PROBLEM OF WHAT BECOMES OF TELEPHONE
LINES, ELECTRICAL CONDUITS, JUNCTION BOXES, OUTLETS AND
JACKS WHEN WALLS HAVE BEEN DONE AWAY WITH AND ALL
NONSTRUCTURAL BUILDING ELEMENTS ARE REMOVED. (KJ)

JOURNAL CITATION: ENVIRON PLANNING DESIGN; 8; 3; 36-39

ACCESSION NUMBER: EJ023376

CLEARINGHOUSE ACCESSION NUMBER: SESD1969

PUBLICATION DATE: MAY '70

TITLE: SEISMIC WAVES AND THE EARTH'S INTERIOR

PERSONAL AUTHOR: LONG, R. E.

DESCRIPTOR: *COLLEGE SCIENCE; *EARTH SCIENCE; ENERGY;
GEOLOGY; *GEOPHYSICS; *MODELS; MOTION; *THEORIES

ISSUE: CIJE1970

JOURNAL CITATION: PHYS EDUC; 5; 3; 162-169

ACCESSION NUMBER: EJ023377

CLEARINGHOUSE ACCESSION NUMBER: SE501970

PUBLICATION DATE: MAY '70

TITLE: AN INVESTIGATION INTO THE PERFORMANCE OF A MINIATURE
DIESEL ENGINE

PERSONAL AUTHOR: STEVENSON, P. W.

DESCRIPTOR: *DIESEL ENGINES; ENERGY; FOREIGN COUNTRIES;
*LABORATORY EXPERIMENTS; MEASUREMENT; MODELS; *PHYSICS;
*SECONDARY SCHOOL SCIENCE; *STUDENT RESEARCH; BRITAIN

ISSUE: CIJE1970

ABSTRACT: REPORTS THE PROCEDURES AND RESULTS OF A STUDENT
INVESTIGATION OF THE PERFORMANCE OF A MINIATURE DIESEL
ENGINE. THE EXPERIMENTS INCLUDE (1) TORQUE MEASUREMENT, (2)
POWER MEASUREMENT AND (3) VARIATION OF POWER OUTPUT WITH
APPLIED LOAD. BIBLIOGRAPHY. (LC)

JOURNAL CITATION: PHYS EDUC; 5; 3; 170-173

ACCESSION NUMBER: EJ023386

CLEARINGHOUSE ACCESSION NUMBER: SE502017

PUBLICATION DATE: JUN '70

TITLE: ENERGY CRISIS: ENVIRONMENTAL ISSUE EXACERBATES POWER
SUPPLY PROBLEM

PERSONAL AUTHOR: BOFFEY, PHILIP M.

DESCRIPTOR: *COMMUNITY PROBLEMS; *ENERGY; *ENVIRONMENT;
FUELS; INDUSTRY; TECHNOLOGY

ISSUE: CIJE1970

ABSTRACT: ANALYZES PROBLEMS OF PROVIDING SUFFICIENT
ELECTRICAL POWER IN TERMS OF INEFFICIENCY OF INDUSTRY AND OF
THE CONFLICT BETWEEN NEED FOR POWER AND NEED FOR
ENVIRONMENTAL QUALITY. SUGGESTS WAYS OF SLOWING THE GROWTH
IN DEMAND, AND INDICATES NEEDED RESEARCH INTO ENERGY
PRODUCTION. (ER)

JOURNAL CITATION: SCIENCE; 168; 3939; 1554-1559

ACCESSION NUMBER: EJ024076

CLEARINGHOUSE ACCESSION NUMBER: SE502103

PUBLICATION DATE: AUG '70

TITLE: A UNIFIED APPROACH TO INTRODUCTORY PHYSICS BASED ON
THE CONSERVATION LAWS

PERSONAL AUTHOR: PERRY, BRADLEY; MILLER, CHARLES

DESCRIPTOR: *COLLEGE SCIENCE; CONSERVATION (CONCEPT);
*COURSE DESCRIPTIONS; *CURRICULUM; ENERGY; *INSTRUCTION;
*PHYSICS; SCIENTIFIC CONCEPTS; UNIFIED STUDIES PROGRAMS

ISSUE: CIJE1970

ABSTRACT: DESCRIBES A NEW, UNIFIED APPROACH TO INTRODUCTORY
PHYSICS BASED ON THE CONSERVATION LAWS. CLASSICAL AND

QUANTUM PHYSICS ARE PRESENTED TOGETHER AS DIFFERENT LEVELS
OF A UNIFIED AND CONSISTENT DESCRIPTION OF THE WORLD. THIS
APPROACH HAS BEEN USED FOR THE LAST 3 YEARS AS THE FIRST
COURSE IN GENERAL PHYSICS FOR SCIENCE AND ENGINEERING
STUDENTS AT TRINITY COLLEGE. (LC)

JOURNAL CITATION: AMER J PHYS; 38; 8; 1028-1032

ACCESSION NUMBER: EJ026122

CLEARINGHOUSE ACCESSION NUMBER: VT501771

PUBLICATION DATE: SEP '70

TITLE: FOR ENERGY CONVERSION, POWER TRANSMISSION

PERSONAL AUTHOR: SULLIVAN, JAMES A.

DESCRIPTOR: *ACTIVITY LEARNING; INDUSTRIAL ARTS; KINETICS;
*POWER MECHANICS; *PROGRAM CONTENT; ENERGY CONVERSION; POWER
TRANSMISSION

ISSUE: CIJE1970

ABSTRACT: DESCRIBES AN ACTION PROGRAM OF POWER INSTRUCTION
DESIGNED FOR STUDENT UNDERSTANDING AND APPLICATION OF POWER
RELATED PHENOMENA. (GR)

JOURNAL CITATION: IND ARTS VOCAT EDUC; 59; 6; 95, 97-98

ACCESSION NUMBER: EJ027033

CLEARINGHOUSE ACCESSION NUMBER: SE502211

PUBLICATION DATE: SEP '70

TITLE: THE USE AND MISUSE OF THE WORD "HEAT" IN PHYSICS
TEACHING

PERSONAL AUTHOR: ZEMANSKY, MARK W.

DESCRIPTOR: *COLLEGE SCIENCE; *ENERGY; HEAT; *INSTRUCTION;
*PHYSICS; *SCIENTIFIC CONCEPTS; SCIENTIFIC PRINCIPLES;
TEMPERATURE; THERMODYNAMICS

ISSUE: CIJE1970

JOURNAL CITATION: PHYS TEACHER; 8; 6; 295-300

ACCESSION NUMBER: EJ029021

CLEARINGHOUSE ACCESSION NUMBER: SE502484

PUBLICATION DATE: NOV '70

TITLE: THE ROLE OF NUCLEAR POWER IN ACHIEVING THE WORLD WE
WANT

PERSONAL AUTHOR: DRISCOLL, M. J.

DESCRIPTOR: *ENERGY; *ENVIRONMENT; FUELS; *NATURAL
RESOURCES; *NUCLEAR PHYSICS; POLLUTION; RADIOISOTOPES;
NUCLEAR REACTORS

ISSUE: CIJE1971

ABSTRACT: SUPPORTS THE DEVELOPMENT OF NUCLEAR POWER PLANTS
AND CONSIDERS SOME PROBLEMS AND POSSIBLE SOLUTIONS: FUTURE
POWER NEEDS, POWER COSTS, THERMAL POLLUTION, RADIONUCLIDE
DISCHARGE. DESCRIBES ADVANTAGES AND APPLICATIONS OF DUAL
PURPOSE POWER PLANTS FOR PURIFYING WATER, PRODUCING
PHOSPHORUS AND AMMONIA, AND SERVING AS FAST BREEDER REACTORS
FOR PU 239. (PR)

JOURNAL CITATION: SCIENCE TEACHER; 37; 8; 24-28

ACCESSION NUMBER: EJ029732

CLEARINGHOUSE ACCESSION NUMBER: SE502673

PUBLICATION DATE: DEC '70

TITLE: IMPACT OF ENERGY DEMANDS

PERSONAL AUTHOR: CAMBEL, ALI B.

DESCRIPTOR: *ENERGY; *ENVIRONMENT; HEAT; PHYSICS;
*POLLUTION; *SOCIOECONOMIC INFLUENCES; TEMPERATURE

ISSUE: CIJE1971

ABSTRACT: THE TYPES OF POLLUTANTS ASSOCIATED WITH THE
PROCESS OF POWER PRODUCTION ARE IDENTIFIED. A NINE-POINT
PROPOSAL IS PRESENTED ON THE WAYS THE INCREASE IN POWER
DEMANDS MIGHT BE ACHIEVED WITH THE MINIMUM THREAT TO THE
ENVIRONMENT. (PR)

JOURNAL CITATION: PHYSICS TODAY; 23; 12; 38-43, 44

ACCESSION NUMBER: EJ033225

CLEARINGHOUSE ACCESSION NUMBER: SE502811

PUBLICATION DATE: NOV '70

TITLE: NUCLEAR REACTORS FOR POWER IN AUSTRALIA

PERSONAL AUTHOR: BAXTER, PHILIP

DESCRIPTOR: *ENERGY; *ENVIRONMENT; *FUELS; *INDUSTRY;
NUCLEAR PHYSICS; *AUSTRALIA

ISSUE: CIJE1971

JOURNAL CITATION: AUSTRALIAN SCIENCE TEACHERS JOURNAL; 16;
3; 41-47

ACCESSION NUMBER: EJ033627
CLEARINGHOUSE ACCESSION NUMBER: SE502807
PUBLICATION DATE: NOV '70
TITLE: ENERGY--UNIFYING THEME OR PHENOMENON?
PERSONAL AUTHOR: MACLAY, R. W. DE H.
DESCRIPTOR: CURRICULUM; *ENERGY; GENERAL SCIENCE;
*INSTRUCTION; INTERNATIONAL EDUCATION; *SCIENTIFIC CONCEPTS;
*SECONDARY SCHOOL SCIENCE; TEACHING PROCEDURES; THEMATIC
APPROACH; *AUSTRALIA
ISSUE: CIJE1971

ABSTRACT: DISCUSSES THE CONCEPT "ENERGY" IN TERMS OF ITS
USE AS A UNIFYING THEME IN SECONDARY SCHOOL SCIENCE COURSES.
(AL)

JOURNAL CITATION: AUSTRALIAN SCIENCE TEACHERS JOURNAL; 16;
3: 11-15

ACCESSION NUMBER: EJ033628
CLEARINGHOUSE ACCESSION NUMBER: SE502808
PUBLICATION DATE: NOV '70
TITLE: INTRODUCING THE CONCEPT OF ENERGY
PERSONAL AUTHOR: EGGINS, ANNE
DESCRIPTOR: *ENERGY; *GENERAL SCIENCE; *INSTRUCTION;
*SCIENTIFIC CONCEPTS; *SECONDARY SCHOOL SCIENCE; TEACHING
PROCEDURES
ISSUE: CIJE1971
JOURNAL CITATION: AUSTRALIAN SCIENCE TEACHERS JOURNAL; 16;
3: 17-20

ACCESSION NUMBER: EJ034117
CLEARINGHOUSE ACCESSION NUMBER: SE503037
PUBLICATION DATE: FEB '71
TITLE: NUCLEAR ENERGY AND THE MALTHUSIAN DILEMMA
PERSONAL AUTHOR: INGLIS, DAVID RITTENHOUSE
DESCRIPTOR: ECONOMICS; *ELECTRICAL SYSTEMS; *ENERGY;
*ENVIRONMENT; *FUELS; NATURAL RESOURCES; POPULATION TRENDS;
*NUCLEAR ENERGY; POWER PRODUCTION
ISSUE: CIJE1971

ABSTRACT: SUGGESTS THAT IN TRYING TO AVOID THE EXTREME
MALTHUSIAN CATASTROPHY, COLLISION BETWEEN DECREASING
RESOURCES AND INCREASING POPULATION, EXPANDED EFFORTS SHOULD
BE MADE TO DEVELOP SAFE AND PLENTIFUL NUCLEAR POWER WHILE
MEETING THE REAL NEEDS OF THE NEAR FUTURE BY MODERATING
UNWARRANTED DEMANDS AND IMPROVING CONVENTIONAL TECHNIQUES.
(AUTHOR/AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 2;
14-18

ACCESSION NUMBER: EJ037159
CLEARINGHOUSE ACCESSION NUMBER: SE503183
PUBLICATION DATE: MAR '71
TITLE: ENERGY AS A NATURAL RESOURCE
PERSONAL AUTHOR: SEEGER, RAYMOND J.
DESCRIPTOR: CONSERVATION EDUCATION; *ENERGY; *ENVIRONMENT;
*NATURAL RESOURCES; TECHNOLOGY
ISSUE: CIJE1971

ABSTRACT: BRIEFLY DISCUSSES ENERGY CONSUMPTION PER CAPITA
AS AN INDEX OF TECHNICAL PROGRESS. A HISTORICAL REVIEW OF
CONCEPTS RELATED TO ENERGY CONSERVATION, ENERGY CONVERSION,
NATURAL SOURCES, MAN-MADE SOURCES, AND SOCIAL IMPLICATIONS.
(PR)

JOURNAL CITATION: SCHOOL SCIENCE AND MATHEMATICS; 71; 3;
257-261

ACCESSION NUMBER: EJ037160
CLEARINGHOUSE ACCESSION NUMBER: SE503287
PUBLICATION DATE: APR '71
TITLE: PRUDENCE AND TECHNOLOGY
PERSONAL AUTHOR: WEINBERG, ALVIN M.
DESCRIPTOR: DEPLETED RESOURCES; *ENERGY; *ENVIRONMENT;
FOOD; *NATURAL RESOURCES; *OVERPOPULATION; *POLLUTION;
TECHNOLOGY; QUALITY OF LIFE
ISSUE: CIJE1971

ABSTRACT: ARGUES THAT PERFECTED TECHNOLOGY, NOT NEO-LUDITE
RESPONSE, IS NECESSARY FOR SOLUTION OF WORLD FOOD AND
RESOURCE PROBLEMS. ALTHOUGH ENERGY SUPPLY WILL ULTIMATELY
LIMIT AVAILABLE FOOD, REACTORS CAN SUPPLY SUFFICIENT POWER
FOR 15 BILLION POPULATION. (AL)

JOURNAL CITATION: BIOSCIENCE; 21; 7; 333-335, 338

ACCESSION NUMBER: EJ037833
CLEARINGHOUSE ACCESSION NUMBER: SE503392
PUBLICATION DATE: MAY '71
TITLE: THE OPTION FOR SURVIVAL
PERSONAL AUTHOR: BERRY, R. STEPHEN
DESCRIPTOR: CONSERVATION EDUCATION; *DEPLETED RESOURCES;
*ENERGY; *ENVIRONMENT; ENVIRONMENTAL EDUCATION; NATURAL
RESOURCES; RECYCLING; *THERMODYNAMICS
ISSUE: CIJE1971

ABSTRACT: SUGGESTS FORMULA FOR SURVIVAL THAT TAKES A
THERMODYNAMIC VIEW WHICH HOLDS THAT WE MUST RECYCLE WASTE
WHILE THE THERMODYNAMIC POTENTIAL STILL IS MODERATELY HIGH.
OTHERWISE THEY ARE LOST, AS HELIUM IS LOST WHEN IT LEAVES
EARTH'S ATMOSPHERE AND GOES INTO SPACE. THE IDEA THAT THE
EARTH IS A CLOSED SYSTEM IS A MYTH; IT COLLAPSES EACH TIME
WE PUT OUR DISCARDS INTO NONRECOVERABLE STATES. (EDITOR/PR)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 5;
22-27

ACCESSION NUMBER: EJ039219
CLEARINGHOUSE ACCESSION NUMBER: SE503509
PUBLICATION DATE: MAY '71
TITLE: CONTROLLED NUCLEAR FUSION: STATUS AND OUTLOOK
PERSONAL AUTHOR: ROSE, DAVID J.
DESCRIPTOR: ELECTROMECHANICAL TECHNOLOGY; *ENERGY;
*ENVIRONMENT; ENVIRONMENTAL INFLUENCES; FUELS; *NUCLEAR
PHYSICS; PHYSICS; RADIATION; RADIOISOTOPES; *TECHNOLOGICAL
ADVANCEMENT
ISSUE: CIJE1971

ABSTRACT: PRESENTS THE HISTORY, CURRENT CONCERNS AND
POTENTIAL DEVELOPMENTS OF NUCLEAR FUSION AS A MAJOR ENERGY
SOURCE. CONTROLLED FUSION RESEARCH IS SUMMARIZED,
TECHNOLOGICAL FEASIBILITY IS DISCUSSED AND ENVIRONMENTAL
FACTORS ARE EXAMINED. RELATIONSHIPS OF ALTERNATIVE ENERGY
SOURCES AS WELL AS ENERGY UTILIZATION ARE CONSIDERED. (JM)

JOURNAL CITATION: SCIENCE; 172; 3985; 797-808

ACCESSION NUMBER: EJ039226
CLEARINGHOUSE ACCESSION NUMBER: SE503629
PUBLICATION DATE: MAY '71
TITLE: THE RADIOACTIVE SALT MINE
PERSONAL AUTHOR: LEWIS, RICHARD S.
DESCRIPTOR: *ENVIRONMENT; *POLLUTION; *RADIATION; RESOURCE
MATERIALS; ATOMIC ENERGY COMMISSION; RADIOACTIVE WASTE
ISSUE: CIJE1971
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 6;
27-30

ACCESSION NUMBER: EJ039951
CLEARINGHOUSE ACCESSION NUMBER: SE503452
PUBLICATION DATE: MAY '71
TITLE: SOLAR ENERGY: A FEASIBLE SOURCE OF POWER?
PERSONAL AUTHOR: PALMER, D. F.; HENVEY, T. L.
DESCRIPTOR: *ELECTRICITY; *ENERGY; RADIATION; SCIENTIFIC
RESEARCH; *SOLAR RADIATION; SOLAR RADIATION
ISSUE: CIJE1971
JOURNAL CITATION: SCIENCE; 172; 3984; 660-715

ACCESSION NUMBER: EJ040884
CLEARINGHOUSE ACCESSION NUMBER: SE503748
PUBLICATION DATE: JUL '71
TITLE: NUCLEAR REACTOR SAFETY: A NEW DILEMMA FOR THE AEC
PERSONAL AUTHOR: GILLETTE, ROBERT
DESCRIPTOR: ENERGY; ENVIRONMENT; POLICY; *RADIATION;
*SAFETY; STATE AGENCIES; ATOMIC ENERGY COMMISSION (AEC);
*NUCLEAR REACTORS
ISSUE: CIJE1971
JOURNAL CITATION: SCIENCE; 173; 3992; 126-130

ACCESSION NUMBER: EJ042535
CLEARINGHOUSE ACCESSION NUMBER: SE503878
PUBLICATION DATE: SEP '71
TITLE: AMERICA'S ENERGY CRISIS: REALITY OR HYSTERIA?
PERSONAL AUTHOR: SPINRAD, BERNARD I.
DESCRIPTOR: AIR POLLUTION CONTROL; *ENERGY; *ENVIRONMENT;
*NATURAL RESOURCES; NUCLEAR PHYSICS; *POLLUTION; RADIATION;

***NUCLEAR POWER**

ISSUE: CIJE1971

ABSTRACT: THE AMERICAN ENERGY CRISIS IS REAL IN THAT OUR SUPPLIES OF FUEL WHICH CAN MEET STANDARDS IMPOSED ON UTILITY EMISSIONS ARE SHORT, AND THE PRICE IS HIGH. IT IS ARTIFICIAL IN THAT MANY OF THE STANDARDS COULD BE PARTIALLY RELAXED, AND CHEAPER FUEL USED BY UTILITIES WITHOUT SIGNIFICANT PUBLIC INSULT. ...NUCLEAR POWER FROM FISSION IS OUR BEST BET. (AUTHOR/AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 7; 3-6

ACCESSION NUMBER: EJ042540

CLEARINGHOUSE ACCESSION NUMBER: SE503885

PUBLICATION DATE: SEP 71

TITLE: ON MISUNDERSTANDING THE ATOM

PERSONAL AUTHOR: SEABORG, GLENN T.

DESCRIPTOR: *ENERGY; *ENVIRONMENT; *RADIATION; *SAFETY; *NUCLEAR POWER

ISSUE: CIJE1971

ABSTRACT: ARGUES IN FAVOR OF EXTENDING THE PEACEFUL USE OF ATOMIC ENERGY. (AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 7; 46-53

ACCESSION NUMBER: EJ042685

CLEARINGHOUSE ACCESSION NUMBER: SE503535

PUBLICATION DATE: MAY 71

TITLE: THE TEACHING OF ENERGY IN THE JUNIOR HIGH SCHOOL

PERSONAL AUTHOR: HABER-SCHAIM, URI

DESCRIPTOR: *INSTRUCTION; *CURRICULUM DEVELOPMENT; *ENERGY; *PHYSICAL SCIENCES; PROGRAM DESCRIPTIONS; *SCIENCE ACTIVITIES; SECONDARY SCHOOL SCIENCE; PHYSICAL SCIENCE II

ISSUE: CIJE1971

ABSTRACT: PRESENTS THE LABORATORY EXPERIMENTS FROM PHYSICAL SCIENCE II THAT ARE RELATED TO ENERGY. INCLUDES THE RATIONALE FOR EACH OF THE EXPERIMENTS AND THEIR RELATIONSHIP TO THE INSTRUCTIONAL SEQUENCE. (DS)

JOURNAL CITATION: PHYSICS TEACHER; 9; 5; 238-243

ACCESSION NUMBER: EJ043133

CLEARINGHOUSE ACCESSION NUMBER: SE503644

PUBLICATION DATE: JUN/JUL 71

TITLE: A NEW LOOK AT THE SUN

PERSONAL AUTHOR: GLASER, PETER E.

DESCRIPTOR: *ENERGY; ENVIRONMENTAL INFLUENCES; *HEAT; KINETICS; SCIENCE EDUCATION; *SOLAR RADIATION

ISSUE: CIJE1971

JOURNAL CITATION: CONSERVATIONIST; 25; 6; 22-27

ACCESSION NUMBER: EJ043297

CLEARINGHOUSE ACCESSION NUMBER: SE503879

PUBLICATION DATE: SEP 71

TITLE: ELECTRIC POWER FROM NUCLEAR FISSION

PERSONAL AUTHOR: BENEDICT, HANSON

DESCRIPTOR: *ENERGY; ENVIRONMENT; NUCLEAR PHYSICS; POLLUTION; *RADIATION; TECHNOLOGY; *NUCLEAR POWER

ISSUE: CIJE1971

ABSTRACT: ADVOCATES BUILDING DEMONSTRATION PLANTS OF LIQUID METAL FAST BREEDER TYPE AND TESTING WASTE DISPOSAL METHODS. SEES NUCLEAR POWER AS THE BEST HOPE OF PROVIDING ELECTRICAL ENERGY FOR THE U.S. (AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 7; 8-16

ACCESSION NUMBER: EJ043298

CLEARINGHOUSE ACCESSION NUMBER: SE503883

PUBLICATION DATE: SEP 71

TITLE: POWER GENERATION AND THE ENVIRONMENT

PERSONAL AUTHOR: ELIASSEN, ROLF

DESCRIPTOR: AIR POLLUTION CONTROL; ENERGY; *ENVIRONMENT; *FUELS; NATURAL RESOURCES; *POLLUTION; *REGIONAL PLANNING; THERMAL ENVIRONMENT; NUCLEAR POWER; STEAM GENERATORS

ISSUE: CIJE1971

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 7; 37-42

ACCESSION NUMBER: EJ044233

CLEARINGHOUSE ACCESSION NUMBER: SE504044

PUBLICATION DATE: OCT 71

TITLE: UNDERGROUND NUCLEAR POWER PLANTS

PERSONAL AUTHOR: ROGERS, FRANKLYN C.

DESCRIPTOR: ECONOMIC FACTORS; *ENERGY; ENVIRONMENTAL INFLUENCES; *POLLUTION; *RADIATION; *SAFETY; TECHNOLOGY

ISSUE: CIJE1971

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 8; 38-41

ACCESSION NUMBER: EJ044234

CLEARINGHOUSE ACCESSION NUMBER: SE504045

PUBLICATION DATE: OCT 71

TITLE: FUSION POWER: THE UNCERTAIN CERTAINTY

PERSONAL AUTHOR: POST, R. F.

DESCRIPTOR: ECONOMIC FACTORS; *ENERGY; *FUELS; MAGNETS; NATURAL RESOURCES; *NUCLEAR PHYSICS; TECHNOLOGY; ATOMIC FUSION

ISSUE: CIJE1971

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 8; 42-48

ACCESSION NUMBER: EJ044419

CLEARINGHOUSE ACCESSION NUMBER: SE504037

PUBLICATION DATE: OCT 71

TITLE: NEW GOALS FOR ATOMIC ENERGY

PERSONAL AUTHOR: PARSEGIAN, V. L.

DESCRIPTOR: ATTITUDES; *ENERGY; *NATURAL RESOURCES; NUCLEAR PHYSICS; PLANNING; *POLLUTION; *SAFETY; WATER POLLUTION CONTROL

ISSUE: CIJE1971

ABSTRACT: THERE SHOULD BE A "SHIFTING OF EMPHASIS FROM FOSSIL FUEL TO NUCLEAR SYSTEMS AS QUICKLY AS POSSIBLE," BUT WITH A MAJOR CHANGE IN THE DESIGN OF REACTOR SYSTEMS TO ENABLE MORE EFFICIENT USE OF THE TOTAL ENERGY PRODUCED. WASTE HEAT MAY BE USED FOR AGRICULTURE. (AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 8; 2-7

ACCESSION NUMBER: EJ044880

CLEARINGHOUSE ACCESSION NUMBER: SE504039

PUBLICATION DATE: OCT 71

TITLE: THE ENERGY COMPANY: A MONOPOLY TREND IN THE ENERGY MARKETS

PERSONAL AUTHOR: NETSCHERT, BRUCE C.

DESCRIPTOR: *ECONOMICS; *ENERGY; *FUELS; INDUSTRIAL STRUCTURE; *MARKETING; *PETROLEUM INDUSTRY; POLICY

ISSUE: CIJE1971

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 8; 13-17

ACCESSION NUMBER: EJ045124

CLEARINGHOUSE ACCESSION NUMBER: SE504038

PUBLICATION DATE: OCT 71

TITLE: TOWARD A POLICY OF ENERGY CONSERVATION

PERSONAL AUTHOR: FREEMAN, S. DAVID

DESCRIPTOR: *ENERGY; ENVIRONMENTAL INFLUENCES; *FUEL CONSUMPTION; *NATURAL RESOURCES; *POLICY

ISSUE: CIJE1971

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 8; 8-12

ACCESSION NUMBER: EJ045125

CLEARINGHOUSE ACCESSION NUMBER: SE504040

PUBLICATION DATE: OCT 71

TITLE: OUTLOOK FOR ENERGY IN THE UNITED STATES

PERSONAL AUTHOR: EMERSON, JOHN D.

DESCRIPTOR: ECONOMIC FACTORS; *ENERGY; *FUELS; *INVESTMENT; POLICY; *RESOURCES; TREND ANALYSIS

ISSUE: CIJE1971

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 8; 18-19

ACCESSION NUMBER: EJ045126
CLEARINGHOUSE ACCESSION NUMBER: SE504041
PUBLICATION DATE: OCT 71
TITLE: ENERGY POLICY-MAKING: LIMITATIONS OF A CONCEPTUAL MODEL
PERSONAL AUTHOR: WHITE, IRVIN L.
DESCRIPTOR: *ENERGY; FUEL CONSUMPTION; *GOVERNMENT ROLE; *INDUSTRY; *POLICY; POLLUTION; RESOURCES; SOCIAL FACTORS; SOCIAL VALUES; TREND ANALYSIS
ISSUE: CIJE1971
ABSTRACT: DISCUSSES THREE MAJOR QUESTIONS DIRECTLY CONCERNED WITH ENERGY POLICY AND THE IMPROVEMENT OF ITS RATIONALITY: WHERE ARE WE? HOW DID WE GET HERE? WHAT CAN WE DO ABOUT IT? (AUTHOR/AL)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 8; 26-26

ACCESSION NUMBER: EJ045127
CLEARINGHOUSE ACCESSION NUMBER: SE504042
PUBLICATION DATE: OCT 71
TITLE: SOLAR POWER
PERSONAL AUTHOR: FORD, NORMAN C.; KANE, JOSEPH W.
DESCRIPTOR: *ECONOMIC FACTORS; *ENERGY; OPTICS; *PHYSICS; *RESEARCH PROPOSALS; RESOURCES; TECHNOLOGY; HYDROGEN; SOLAR ENERGY
ISSUE: CIJE1971
ABSTRACT: PROPOSES A METHOD OF COLLECTING SOLAR ENERGY BY USING AVAILABLE PLASTICS FOR FRESNEL LENSES TO FOCUS HEAT ONTO A CONVERTER WHERE THERMAL DISSOCIATION OF WATER WOULD PRODUCE HYDROGEN. THE HYDROGEN WOULD BE USED AS AN EFFICIENT NON-POLLUTING FUEL. COST ESTIMATES ARE INCLUDED. (AL)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 8; 27-31

ACCESSION NUMBER: EJ045128
CLEARINGHOUSE ACCESSION NUMBER: SE504043
PUBLICATION DATE: OCT 71
TITLE: IS IT TIME FOR A NEW LOOK AT SOLAR ENERGY?
PERSONAL AUTHOR: MEINEL, ADEN BAKER; MEINEL, MARJORIE PETTIT
DESCRIPTOR: ECONOMIC FACTORS; *ENERGY; ENVIRONMENTAL INFLUENCES; OPTICS; *PHYSICS; *RESEARCH PROPOSALS; RESOURCES; *TECHNOLOGY; HEAT STORAGE; SOLAR ENERGY
ISSUE: CIJE1971
ABSTRACT: SUGGESTS A SYSTEM FOR COLLECTING AND STORING SOLAR ENERGY TO BE USED AS THE HEAT SOURCE FOR CONVENTIONAL THERMAL POWERSTATIONS. CONSIDERS THE ENVIRONMENTAL AND DEMOGRAPHIC IMPACT OF SUCH SYSTEMS IN THE DESERT AREAS OF THE SOUTHWEST U. S. (AL)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 8; 32-37

ACCESSION NUMBER: EJ045129
CLEARINGHOUSE ACCESSION NUMBER: SE504046
PUBLICATION DATE: OCT 71
TITLE: GEOTHERMAL ENERGY - THE NEGLECTED ENERGY OPTION
PERSONAL AUTHOR: REX, ROBERT W.
DESCRIPTOR: *EARTH SCIENCE; *ENERGY; *GEOPHYSICS; *NATURAL RESOURCES; *TECHNOLOGY
ISSUE: CIJE1971
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 8; 52-56

ACCESSION NUMBER: EJ045785
CLEARINGHOUSE ACCESSION NUMBER: VT502879
PUBLICATION DATE: SUM 71
TITLE: EMPLOYMENT GROWS IN ATOMIC ENERGY FIELD
DESCRIPTOR: *EMPLOYMENT OPPORTUNITIES; *EMPLOYMENT TRENDS; *MANPOWER NEEDS; *SCIENTIFIC PERSONNEL; *ATOMIC ENERGY
ISSUE: CIJE1972
JOURNAL CITATION: OCCUPATIONAL OUTLOOK QUARTERLY; 15; 2; 34-35

ACCESSION NUMBER: EJ045791
CLEARINGHOUSE ACCESSION NUMBER: VT502903
PUBLICATION DATE: OCT 71
TITLE: EMPLOYMENT IN THE ATOMIC ENERGY FIELD

PERSONAL AUTHOR: LUKASTEWICZ, JOHN M.
DESCRIPTOR: *EMPLOYMENT STATISTICS; EMPLOYMENT TRENDS; *MANPOWER NEEDS; *SCIENTIFIC PERSONNEL; *ATOMIC ENERGY
ISSUE: CIJE1972
JOURNAL CITATION: MONTHLY LABOR REVIEW; 94; 10; 51-58

ACCESSION NUMBER: EJ045804
CLEARINGHOUSE ACCESSION NUMBER: SE504363
PUBLICATION DATE: NOV 71
TITLE: TECHNOLOGY AND THE LIFE SCIENCES
PERSONAL AUTHOR: WEINBERG, ALVIN M.
DESCRIPTOR: *BIOLOGICAL SCIENCES; *ENERGY; RADIOISOTOPES; SCIENCE EQUIPMENT; SCIENTIFIC METHODOLOGY; SCIENTIFIC RESEARCH; *TECHNOLOGY
ISSUE: CIJE1972
JOURNAL CITATION: BIOSCIENCE; 21; 21; 1085-1087

ACCESSION NUMBER: EJ045991
CLEARINGHOUSE ACCESSION NUMBER: SE504288
PUBLICATION DATE: NOV 71
TITLE: IONIZING-RADIATION STANDARDS FOR POPULATION EXPOSURE
PERSONAL AUTHOR: LIEBERMAN, JOSEPH A.
DESCRIPTOR: COLLEGE SCIENCE; ENERGY; *ENVIRONMENTAL EDUCATION; NUCLEAR PHYSICS; *PHYSICS; *RADIATION EFFECTS; RESOURCE MATERIALS; SECONDARY SCHOOL SCIENCE; *STANDARDS; ENVIRONMENTAL PROTECTION AGENCY
ISSUE: CIJE1972
JOURNAL CITATION: PHYSICS TODAY; 24; 11; 32-28

ACCESSION NUMBER: EJ045992
CLEARINGHOUSE ACCESSION NUMBER: SE504290
PUBLICATION DATE: NOV 71
TITLE: THE PALISADES PROTEST: A PATTERN OF CITIZEN INTERVENTION
PERSONAL AUTHOR: GENDLIN, FRANCES
DESCRIPTOR: *CITIZEN PARTICIPATION; ENVIRONMENTAL INFLUENCES; *POLLUTION; *RADIATION; SAFETY; *THERMAL ENVIRONMENT; *WATER POLLUTION CONTROL; ATOMIC ENERGY COMMISSION; NATIONAL ENVIRONMENT POLICY ACT
ISSUE: CIJE1972
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27; 9; 53-36

ACCESSION NUMBER: EJ046435
CLEARINGHOUSE ACCESSION NUMBER: SE504340
PUBLICATION DATE: NOV 71
TITLE: RELATIVE COSTS OF ENERGY
PERSONAL AUTHOR: REID, WILLIAM T.
DESCRIPTOR: *ECONOMIC FACTORS; ELECTRIC BATTERIES; *ELECTRICITY; *ENERGY; FUEL CONSUMPTION; *PHYSICS; RESOURCE MATERIALS; SECONDARY SCHOOL SCIENCE; UTILITIES
ISSUE: CIJE1972
JOURNAL CITATION: PHYSICS TEACHER; 9; 8; 459-461

ACCESSION NUMBER: EJ046543
CLEARINGHOUSE ACCESSION NUMBER: SE504250
PUBLICATION DATE: OCT 71
TITLE: LIQUID HYDROGEN AS A FUEL FOR THE FUTURE
PERSONAL AUTHOR: JONES, LAWRENCE W.
DESCRIPTOR: AIR POLLUTION CONTROL; DEPLETED RESOURCES; *ENERGY; *FUELS; *MOTOR VEHICLES; PREDICTION; *TRANSPORTATION
ISSUE: CIJE1972
JOURNAL CITATION: SCIENCE; 174; 4007; 367-370

ACCESSION NUMBER: EJ047844
CLEARINGHOUSE ACCESSION NUMBER: SE504392
PUBLICATION DATE: NOV 71
TITLE: ENERGY CONVERSION USING A BALLISTIC MOTOR
PERSONAL AUTHOR: JACKSON, A. T.
DESCRIPTOR: COLLEGE SCIENCE; ELECTRIC CIRCUITS; ELECTRIC MOTORS; *ENERGY; MOTION; *PHYSICS; *RESOURCE MATERIALS; *SECONDARY SCHOOL SCIENCE; *TEACHING TECHNIQUES

ISSUE: CIJE1972

JOURNAL CITATION: PHYSICS EDUCATION; 6; 6: 435

ACCESSION NUMBER: EJ047847

CLEARINGHOUSE ACCESSION NUMBER: SE504407

PUBLICATION DATE: NOV 71

TITLE: BREEDER REACTORS: POWER FOR THE FUTURE

PERSONAL AUTHOR: HAMMOND, ALLEN L.

DESCRIPTOR: *ELECTRICITY; *ENERGY; *NUCLEAR PHYSICS;
*TECHNOLOGICAL ADVANCEMENT; *TECHNOLOGY; *ATOMIC ENERGY
COMMISSION; *BREEDER REACTORS

ISSUE: CIJE1972

JOURNAL CITATION: SCIENCE; 174; 4011: 807-810

ACCESSION NUMBER: EJ047972

CLEARINGHOUSE ACCESSION NUMBER: SE504493

PUBLICATION DATE: DEC 71

TITLE: ON THE CONTROL OF SCIENCE: FOUR VIEWS, II.
TECHNOLOGY AND SOCIETY--THE REAL ISSUES

PERSONAL AUTHOR: TRIBUS, MYRON

DESCRIPTOR: CLIMATE CONTROL; ENERGY; FUELS; *POLITICAL
ISSUES; POLLUTION; *SOCIAL FACTORS; *TECHNOLOGY

ISSUE: CIJE1972

ABSTRACT: DISCUSSES METHODS OF ENSURING THAT TECHNOLOGICAL
FORCES ARE HARNESSSED FOR THE COMMON GOOD AND THAT HERE
TECHNOLOGICAL CHANGE IS NOT PANNED OFF ON US AS
TECHNOLOGICAL PROGRESS. *S ARGUES THAT MANY PROBLEMS HAVE
ARISEN BECAUSE THERE WAS NO GROUP "IN CHARGE" OF TECHNOLOGY.
(AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 27;
10: 27-30

ACCESSION NUMBER: EJ051742

CLEARINGHOUSE ACCESSION NUMBER: SE504833

PUBLICATION DATE: DEC 71

TITLE: THERMAL POLLUTION IN UNCHARTED WATERS

DESCRIPTOR: ENERGY; *ENVIRONMENTAL EDUCATION; *POLLUTION;
*RESOURCE MATERIALS; *STANDARDS; *THERMAL ENVIRONMENT; *WATER
POLLUTION CONTROL

ISSUE: CIJ MAY 72

ABSTRACT: LEGAL REGULATIONS OF THERMAL POLLUTION CAUSED BY
THE INTRODUCTION OF WASTE HEAT INTO OUR WATER RESOURCES AND
THE POTENTIAL OF THIS ENERGY AS A FUTURE RESOURCE ARE
DISCUSSED. (CP)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 5;
12: 1170-1172

ACCESSION NUMBER: EJ051743

CLEARINGHOUSE ACCESSION NUMBER: SE504834

PUBLICATION DATE: DEC 71

TITLE: GAS FROM COAL: FUEL OF THE FUTURE

PERSONAL AUTHOR: MILLS, G. ALEX

DESCRIPTOR: ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS;
*INDUSTRIAL TECHNOLOGY; *NATURAL RESOURCES; *RESOURCE
MATERIALS; *COAL GASIFICATION

ISSUE: CIJ MAY 72

ABSTRACT: WITH NATURAL GAS SUPPLIES UNABLE TO KEEP UP WITH
THE DEMAND, COAL GASIFICATION IS SUGGESTED AS AN
ALTERNATIVE. (AUTHOR/CP)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 5;
12: 1170-1183

ACCESSION NUMBER: EJ051754

CLEARINGHOUSE ACCESSION NUMBER: SE504741

PUBLICATION DATE: JAN 72

TITLE: AN ELECTRONIC MULTIPLIER TO MEASURE POWER AND ENERGY

PERSONAL AUTHOR: TRINOGGA, L. A.

DESCRIPTOR: COLLEGE SCIENCE; *ELECTRIC CIRCUITS;
*ELECTRONIC EQUIPMENT; *ENERGY; *LABORATORY EQUIPMENT;
*MEASUREMENT INSTRUMENTS; *PHYSICS; *SCIENCE EQUIPMENT

ISSUE: CIJ MAY 72

JOURNAL CITATION: PHYSICS EDUCATION; 7; 1: 33-35

ACCESSION NUMBER: EJ052353

CLEARINGHOUSE ACCESSION NUMBER: SE504887

PUBLICATION DATE: FEB 72

TITLE: PHYSICS LOOKS AT SOLAR ENERGY

PERSONAL AUTHOR: MEINEL, ADEN BAKER; MEINEL, MARJORIE
PETTIT

DESCRIPTOR: *ELECTRICITY; *ENERGY; LIGHT; *PHYSICS;
*RADIATION; *UTILITIES

ISSUE: CIJ MAY 72

JOURNAL CITATION: PHYSICS TODAY; 25; 2: 44-50

ACCESSION NUMBER: EJ052945

CLEARINGHOUSE ACCESSION NUMBER: SE504954

PUBLICATION DATE: JAN/FEB 72

TITLE: A REPORT OF THE MEHA AIR POLLUTION COMMITTEE

PERSONAL AUTHOR: KIRKPATRICK, LANE

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENERGY; *FUEL
CONSUMPTION; FUELS; NATURAL RESOURCES; REPORTS; THERMAL
ENVIRONMENT

ISSUE: CIJ JUN 72

JOURNAL CITATION: JOURNAL OF ENVIRONMENTAL HEALTH; 34; 4;
397-398, 437

ACCESSION NUMBER: EJ053159

CLEARINGHOUSE ACCESSION NUMBER: SE505359

PUBLICATION DATE: MAR 72

TITLE: GLOBAL EFFECTS OF INCREASED USE OF ENERGY

PERSONAL AUTHOR: WEINBERG, ALVIN M.; HAMMOND, R. PHILIP

DESCRIPTOR: DEMOGRAPHY; *ENERGY; ENVIRONMENTAL EDUCATION;
ENVIRONMENTAL INFLUENCES; NATURAL RESOURCES; *NUCLEAR
PHYSICS; *POLLUTION; RECYCLING; RESOURCE MATERIALS; *THERMAL
ENVIRONMENT

ISSUE: CIJ JUN 72

ABSTRACT: THIS PAPER, WHICH SPECULATES ON THE EFFECTS OF
MAN'S ENERGY RELEASES ON WORLD CLIMATE, CONCLUDES THAT
GLOBAL UPSETS ARE VERY UNLIKELY IF WE ARE ABLE TO DISTRIBUTE
THE ENERGY WIDELY OR INTO THE SEA. (AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 28; 3;
5-8, 43-44

ACCESSION NUMBER: EJ053616

CLEARINGHOUSE ACCESSION NUMBER: SE505239

PUBLICATION DATE: MAR 72

TITLE: ENERGY, TECHNOLOGY, AND THE STORY OF MAN

PERSONAL AUTHOR: KRANZBERG, MELVIN

DESCRIPTOR: *ENERGY; *ENGINES; PHYSICAL SCIENCES; RESOURCE
MATERIALS; *SCIENCE HISTORY; SECONDARY SCHOOL SCIENCE;
*TECHNOLOGY; *VALUES

ISSUE: CIJ JUN 72

JOURNAL CITATION: SCIENCE TEACHER; 39; 3: 26-30

ACCESSION NUMBER: EJ053617

CLEARINGHOUSE ACCESSION NUMBER: SE505240

PUBLICATION DATE: MAR 72

TITLE: ENERGY CONVERSIONS AND ENVIRONMENTAL POLLUTION

PERSONAL AUTHOR: HENDERSON, MICHAEL D.; JOHNSON, R. CURTIS

DESCRIPTOR: AIR POLLUTION CONTROL; *ENERGY; *ENVIRONMENTAL
EDUCATION; PHYSICAL SCIENCES; *POLLUTION; POWER MECHANICS;
RESOURCE MATERIALS; SCIENCE HISTORY; *SECONDARY SCHOOL
SCIENCE; *TECHNOLOGY

ISSUE: CIJ JUN 72

JOURNAL CITATION: SCIENCE TEACHER; 39; 3: 31-35

ACCESSION NUMBER: EJ053618

CLEARINGHOUSE ACCESSION NUMBER: SE505241

PUBLICATION DATE: MAR 72

TITLE: SOLAR ENERGY--PROSPECTS FOR ITS LARGE-SCALE USE

PERSONAL AUTHOR: GLASER, PETER E.

DESCRIPTOR: *ENERGY; ENGINES; *PHYSICAL SCIENCES; RESOURCE
MATERIALS; *SCIENCE HISTORY; SECONDARY SCHOOL SCIENCE;
*SOLAR RADIATION; *TECHNOLOGY

ISSUE: CIJ JUN 72

ABSTRACT: DISCUSSED IS THE POSSIBILITY OF SOLAR ENERGY AS A
SOLUTION TO THE ENERGY CRISIS. (CP)

JOURNAL CITATION: SCIENCE TEACHER; 39; 3: 36-39

ACCESSION NUMBER: EJ053619
 CLEARINGHOUSE ACCESSION NUMBER: SE505242
 PUBLICATION DATE: MAR 72
 TITLE: GEOTHERMAL ENERGY
 PERSONAL AUTHOR: HUFFLER, L. J. P.; WHITE, D. E.
 DESCRIPTOR: *ENERGY; *NATURAL RESOURCES; *PHYSICAL SCIENCES; *RESOURCE MATERIALS; *SECONDARY SCHOOL SCIENCE; *TECHNOLOGY; *WATER RESOURCES
 ISSUE: CIJJUN72
 ABSTRACT: THE POSSIBLE UTILIZATION OF GEOTHERMAL ENERGY AS A SOLUTION TO THE ENERGY CRISIS IS DISCUSSED. (CP)
 JOURNAL CITATION: SCIENCE TEACHER; 39; 3; 40-43

ACCESSION NUMBER: EJ053620
 CLEARINGHOUSE ACCESSION NUMBER: SE505243
 PUBLICATION DATE: MAR 72
 TITLE: PROGRESS IN CONTROLLED FUSION RESEARCH
 PERSONAL AUTHOR: AUER, P. L.; SUDAN, R. N.
 DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; PHYSICS; RESOURCE MATERIALS; *SCIENTIFIC RESEARCH; *SECONDARY SCHOOL SCIENCE; *FUSION
 ISSUE: CIJJUN72
 JOURNAL CITATION: SCIENCE TEACHER; 39; 3; 44-50

ACCESSION NUMBER: EJ054231
 CLEARINGHOUSE ACCESSION NUMBER: SE504906
 PUBLICATION DATE: JAN 72
 TITLE: TOPICS IN TECHNOLOGY AND MODERN SOCIAL PROBLEMS--A NEW COURSE FOR SCIENCE STUDENTS
 PERSONAL AUTHOR: MORGAN, M. GRANGER
 DESCRIPTOR: AUTOMATION; *COLLEGE SCIENCE; *COURSE DESCRIPTIONS; CURRICULUM DEVELOPMENT; ENERGY; *SOCIAL PROBLEMS; *TECHNOLOGY
 ISSUE: CIJJUL72
 ABSTRACT: DESCRIBES A PILOT COURSE DESIGNED TO PROVIDE ADVANCED UNDERGRADUATE SCIENCE STUDENTS WITH AN OPPORTUNITY TO EXPLORE THE WAY IN WHICH SEVERAL FIELDS OF SCIENCE AND TECHNOLOGY INTERFACE WITH SOCIETY AT LARGE, INTERESTS AND ATTITUDES FOR CAREER WORK IN THE SCIENCE-SOCIETY INTERFACE AREA ARE ALSO EXPLORED. (AUTHOR/TS)
 JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS; 40; 1; 116-120

ACCESSION NUMBER: EJ055024
 CLEARINGHOUSE ACCESSION NUMBER: SE505437
 PUBLICATION DATE: MAR 72
 TITLE: A HEATED DISCUSSION
 PERSONAL AUTHOR: VANNAN, DONALD A.
 DESCRIPTOR: *ELEMENTARY SCHOOL SCIENCE; ENERGY; *HEAT; INSTRUCTION; *PHYSICAL SCIENCES; RESOURCE MATERIALS; *SCIENCE ACTIVITIES; SECONDARY SCHOOL SCIENCE
 ISSUE: CIJJUL72
 JOURNAL CITATION: SCIENCE ACTIVITIES; 7; 2; 42-45

ACCESSION NUMBER: EJ055962
 CLEARINGHOUSE ACCESSION NUMBER: SE505533
 PUBLICATION DATE: MAR 72
 TITLE: WHITE HOUSE PRESENTS VAPID TECHNOLOGY PLAN
 DESCRIPTOR: *DRUG LEGISLATION; *ENERGY; ENVIRONMENTAL INFLUENCES; FEDERAL PROGRAMS; *HEALTH PROGRAMS; MANPOWER NEEDS; POLICY; *TECHNOLOGY; *TRANSPORTATION; PRESIDENTIAL MESSAGE
 ISSUE: CIJUG72
 ABSTRACT: CRITICIZES PRESIDENTIAL MESSAGE ON SCIENCE AND TECHNOLOGY FOR DISCUSSING POLICY AND PHILOSOPHY RATHER THAN SPECIFIC PROGRAMS FOR THEIR IMPLEMENTATION. (AL)
 JOURNAL CITATION: SCIENCE; 179; 4028; 1343

ACCESSION NUMBER: EJ056554
 CLEARINGHOUSE ACCESSION NUMBER: SE505621
 PUBLICATION DATE: APR 72
 TITLE: FRAMING THE SUN'S ENERGY
 PERSONAL AUTHOR: THOMSEN, DIETRICK E.
 DESCRIPTOR: *ENERGY; *PHYSICAL SCIENCES; RESOURCE MATERIALS; *SOLAR RADIATION; *TECHNOLOGY

ISSUE: CIJUG72
 JOURNAL CITATION: SCIENCE NEWS; 101; 15; 237-238

ACCESSION NUMBER: EJ058080
 CLEARINGHOUSE ACCESSION NUMBER: SE505925
 PUBLICATION DATE: MAY 72
 TITLE: ENERGY FROM BREEDER REACTORS
 PERSONAL AUTHOR: CULLER, FLOYD L., JR.; HARMS, WILLIAM O.
 DESCRIPTOR: *ENERGY; FUELS; *NUCLEAR PHYSICS; PHYSICS; *RADIATION EFFECTS; *RADIOISOTOPES; RESOURCE MATERIALS; UTILITIES
 ISSUE: CIJSEP72
 JOURNAL CITATION: PHYSICS TODAY; 25; 5; 28-39

ACCESSION NUMBER: EJ058278
 CLEARINGHOUSE ACCESSION NUMBER: SE505954
 PUBLICATION DATE: MAY 72
 TITLE: INTERTWINED SOCIETAL PROBLEMS
 PERSONAL AUTHOR: ABELSON, PHILIP H.
 DESCRIPTOR: *ECONOMICS; *ENERGY; *ENVIRONMENTAL INFLUENCES; *FOREIGN RELATIONS; *SOCIAL SCIENCES; EDITORIALS
 ISSUE: CIJSEP72
 ABSTRACT: DISCUSSES THE INTERRELATIONS BETWEEN FACTORS INFLUENCING ENERGY REQUIREMENTS, ENVIRONMENTAL QUALITY, BALANCE OF PAYMENTS, AND NATIONAL SECURITY. (AL)
 JOURNAL CITATION: SCIENCE; 176; 4034; 461

ACCESSION NUMBER: EJ058862
 CLEARINGHOUSE ACCESSION NUMBER: SE505958
 PUBLICATION DATE: MAR 72
 TITLE: BOTTLES, CANS, ENERGY
 PERSONAL AUTHOR: HANNON, BRUCE M.
 DESCRIPTOR: *COST EFFECTIVENESS; ECOLOGY; *ECONOMICS; *ENERGY; *INDUSTRIAL TECHNOLOGY; PHYSICAL SCIENCES; *RECYCLING; RESOURCES; TECHNOLOGICAL ADVANCEMENT; WASTES
 ISSUE: CIJOCT72
 JOURNAL CITATION: ENVIRONMENT; 14; 2; 11-21

ACCESSION NUMBER: EJ060275
 CLEARINGHOUSE ACCESSION NUMBER: SE506370
 PUBLICATION DATE: JUL 72
 TITLE: WANTED: A NATIONAL ENERGY POLICY
 DESCRIPTOR: *ENERGY; ENVIRONMENTAL INFLUENCES; *FEDERAL GOVERNMENT; GOVERNMENTAL STRUCTURE; NATURAL RESOURCES; *POLICY FORMATION
 ISSUE: CIJNOV72
 ABSTRACT: RECENT HEARINGS HAVE SHED LITTLE LIGHT ON HOW THE FEDERAL GOVERNMENT SHOULD RESTRUCTURE ITSELF TO DEAL WITH THE MOUNTING ENERGY CRISIS. INDIVIDUAL VIEWPOINTS AND PERSONAL OBSERVATIONS ARE PRESENTED, SHOWING A LACK OF CONSENSUS ON THE BEST WAY TO ACCOMPLISH THIS. OFFICE OF SCIENCE AND TECHNOLOGY PRIORITIES TOWARD A NATIONAL ENERGY POLICY ARE DISCUSSED. (BL)
 JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 6; 7; 601

ACCESSION NUMBER: EJ060277
 CLEARINGHOUSE ACCESSION NUMBER: SE506410
 PUBLICATION DATE: JUN 72
 TITLE: ENERGY AND WELL-BEING
 PERSONAL AUTHOR: MAKHIJANI, A. B.; LICHTENBERG, A. J.
 DESCRIPTOR: COMPONENTIAL ANALYSIS; *ENERGY; ENVIRONMENTAL INFLUENCES; *LIVING STANDARDS; *NATURAL RESOURCES; *QUALITY CONTROL; RECYCLING; STATISTICAL DATA
 ISSUE: CIJNOV72
 ABSTRACT: AN EXAMINATION OF ENERGY USE IN THE UNITED STATES SHOWS THAT MUCH IS WASTEFUL AND THAT THE SAME MATERIAL STANDARD OF LIVING COULD BE MAINTAINED WITH A LOWER CONSUMPTION OF ENERGY. RECYCLING OF MATERIALS, IMPROVED TRANSPORTATION, AND MORE EFFICIENT HEATING AND COOLING SYSTEMS ARE MAJOR AREAS OF POTENTIAL IMPROVEMENT. (BL)
 JOURNAL CITATION: ENVIRONMENT; 14; 5; 10-18

ACCESSION NUMBER: EJ060480
 CLEARINGHOUSE ACCESSION NUMBER: SE506363
 PUBLICATION DATE: JUL 72

TITLE: SOCIAL INSTITUTIONS AND NUCLEAR ENERGY

PERSONAL AUTHOR: WEINBERG, ALVIN M.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL INFLUENCES; *NUCLEAR PHYSICS; *POLITICAL ISSUES; *RADIATION; *SAFETY; *SOCIAL RESPONSIBILITY

ISSUE: CIJNOV72

ABSTRACT: NUCLEAR TECHNOLOGISTS CAN OFFER AN "ALL BUT INFINITE SOURCE OF RELATIVELY CHEAP AND CLEAN ENERGY" BUT SOCIETY MUST DECIDE WHETHER THE PRICE OF "ETERNAL VIGILANCE NEEDED TO ENSURE PROPER AND SAFE OPERATION OF ITS NUCLEAR ENERGY SYSTEM" IS WORTH THE BENEFITS. (AUTHOR/AL)

JOURNAL CITATION: SCIENCE; 177; 4043; 27-34

ACCESSION NUMBER: EJ060529

CLEARINGHOUSE ACCESSION NUMBER: SE506050

PUBLICATION DATE: MAY 72

TITLE: ENERGY AND ENVIRONMENT

PERSONAL AUTHOR: ALFVEN, HANNE

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL INFLUENCES; *INTERNATIONAL PROGRAMS; *NUCLEAR PHYSICS; *POLITICAL ISSUES; *PUBLIC HEALTH; *RADIATION; *RESOURCE MATERIALS; *SAFETY; *TECHNOLOGY

ISSUE: CIJNOV72

ABSTRACT: SUMMARIZES THE ISSUES INVOLVED IN THE SUPPLY OF ENERGY AND THE FUTURE OF HUMANITY. ARGUES THAT THE PROBLEM SHOULD BE APPROACHED AS ONE WORLD PROBLEM, NOT A SERIES OF NATIONAL ONES. (AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 28; 5; 5-7

ACCESSION NUMBER: EJ060535

CLEARINGHOUSE ACCESSION NUMBER: SE506311

PUBLICATION DATE: JUN 72

TITLE: SCIENTIST VS. CITIZEN: THE SHOREHAM CONTROVERSY

PERSONAL AUTHOR: SAILOR, VANCE L.; CARL, ANN

DESCRIPTOR: *CITIZEN PARTICIPATION; *ENERGY; *ENVIRONMENTAL INFLUENCES; *RESOURCE MATERIALS; *SAFETY; *STANDARDS; *NUCLEAR POWER

ISSUE: CIJNOV72

ABSTRACT: TWO VIEWS ON THE ISSUE OF NUCLEAR REACTOR SAFETY WITH REFERENCE TO THE LICENSE APPLICATION OF A NUCLEAR POWER PLANT ON LONG ISLAND. EACH SIDE PRESENTS SCIENTIFIC ARGUMENTS CONCERNING THE SAFETY STANDARDS PROPOSED. (AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 28; 6; 24-36

ACCESSION NUMBER: EJ060949

CLEARINGHOUSE ACCESSION NUMBER: SE505966

PUBLICATION DATE: APR 72

TITLE: LOST POWER

PERSONAL AUTHOR: GRIMMER, D. P.; LUSZCZYNSKI, K.

DESCRIPTOR: *ENERGY; *NATURAL RESOURCES; *POLICY FORMATION; *STATISTICAL DATA; *TECHNOLOGY; *TRANSPORTATION

ISSUE: CIJNOV72

ABSTRACT: SURVEYS SOME OF THE BACKGROUND INFORMATION ON ENERGY USE IN TRANSPORTATION. ANALYSIS SUGGESTS NEW POLICIES MUST BE FORMULATED TO MAKE MORE EFFICIENT USE OF DWINDLING FOSSIL FUEL RESERVES, AND MORE EFFICIENT MEANS OF TRANSPORTATION AS BUS, TRAIN, PIPELINE, WATERWAY, AND ELECTRIC AUTOMOBILE. (BL)

JOURNAL CITATION: ENVIRONMENT; 14; 3; 14-22

ACCESSION NUMBER: EJ060979

CLEARINGHOUSE ACCESSION NUMBER: VT503817

PUBLICATION DATE: MAY/JUN 72

TITLE: THE ENERGY AND POWER CRISIS

PERSONAL AUTHOR: OLSEN, FRED A.

DESCRIPTOR: *AIR POLLUTION CONTROL; *ELECTRICAL SYSTEMS; *ENERGY; *KINETICS; *SOLAR RADIATION; *TRANSPORTATION

ISSUE: CIJNOV72

JOURNAL CITATION: MAN/SOCIETY/TECHNOLOGY--A JOURNAL OF INDUSTRIAL ARTS EDUCATION; 31; 8; 241-243

ACCESSION NUMBER: EJ061005

CLEARINGHOUSE ACCESSION NUMBER: SE506054

PUBLICATION DATE: MAY 72

TITLE: AN INTERNATIONAL SOLAR ENERGY DEVELOPMENT DECADE. A PROPOSAL FOR GLOBAL COOPERATION

PERSONAL AUTHOR: STONIER, TOM

DESCRIPTOR: *AEROSPACE TECHNOLOGY; *DEVELOPING NATIONS; *ENERGY; *INTERNATIONAL PROGRAMS; *PEACE; *PROGRAM PROPOSALS; *TECHNOLOGY; *SOLAR ENERGY

ISSUE: CIJNOV72

ABSTRACT: ARGUES THAT INTERNATIONAL COOPERATION IN DEVELOPING SOLAR ENERGY, EITHER BY COLLECTING THE ENERGY IN SPACE STATIONS AND TRANSMITTING TO EARTH VIA MICROWAVE BEAMS OR BY TERRESTRIAL COLLECTION, CAN LEAD TO PEACE BETWEEN NATIONS. (AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 28; 5; 31-34

ACCESSION NUMBER: EJ061170

CLEARINGHOUSE ACCESSION NUMBER: SE506051

PUBLICATION DATE: MAY 72

TITLE: RECYCLING, THERMODYNAMICS AND ENVIRONMENTAL THRIFT

PERSONAL AUTHOR: BERRY, R. STEPHEN

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL INFLUENCES; *MANUFACTURING; *NATURAL RESOURCES; *RECYCLING; *RESEARCH NEEDS; *RESOURCE MATERIALS; *TECHNOLOGY; *THERMODYNAMICS

ISSUE: CIJNOV72

ABSTRACT: COMPARES THE COST, IN TERMS OF THERMODYNAMIC POTENTIAL, OF MANUFACTURING AUTOMOBILES FROM RAW MINERAL RESOURCES OR FROM RECYCLED VEHICLES, AND OF THE PRODUCTION OF EXTENDED-LIFE PRODUCTS. USES THIS AS AN EXAMPLE FOR ARGUING THAT NEW TECHNOLOGIES, WITH EFFICIENCIES CLOSER TO THE THERMODYNAMIC MINIMA, ARE NEEDED IF A SOCIETY IS TO PRACTICE "THERMODYNAMIC AND ENVIRONMENTAL THRIFT." (AL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 28; 5; 8-15

ACCESSION NUMBER: EJ061175

CLEARINGHOUSE ACCESSION NUMBER: SE506411

PUBLICATION DATE: JUN 72

TITLE: WHEN THE WELL RUNS DRY

PERSONAL AUTHOR: WILLIAMS, ROBERT M.

DESCRIPTOR: *ENERGY; *FUEL CONSUMPTION; *FUELS; *NATURAL RESOURCES; *STATISTICAL DATA; *SUPPLIES

ISSUE: CIJNOV72

ABSTRACT: NATURAL GAS IS VIEWED AS AN ATTRACTIVE FUEL - LOW POLLUTING, WITH LOW PRODUCTION AND TRANSPORTATION COSTS. HOWEVER, HIGH DEMAND, COUPLED WITH A DECREASED DISCOVERY RATE FOR NEW GAS RESERVES, IS LEADING TO A NATURAL GAS SHORTAGE. OTHER RESOURCES MUST BE SUBSTITUTED WITH SYNTHETIC GAS FROM COAL AND METHANE FROM ORGANIC WASTES EMERGING AS POTENTIAL REPLACEMENTS TO MEET LONG-TERM NEEDS. (BL)

JOURNAL CITATION: ENVIRONMENT; 14; 5; 19-20, 25-31

ACCESSION NUMBER: EJ062099

CLEARINGHOUSE ACCESSION NUMBER: SE506454

PUBLICATION DATE: JUL 72

TITLE: COPING WITH HEATED WASTE WATER DISCHARGES FROM STEAM-ELECTRIC POWER PLANTS

PERSONAL AUTHOR: CATRNS, JOHN JR.

DESCRIPTOR: *BIOLOGY; *ELECTRICITY; *ENERGY; *ENVIRONMENTAL INFLUENCES; *HEAT; *MANAGEMENT; *POLLUTION; *WATER POLLUTION CONTROL

ISSUE: CIJDEC72

ABSTRACT: DISCUSSES "SOME OF THE KEY QUESTIONS WHICH WOULD STILL NEED TO BE RESOLVED EVEN IF THERE WERE COMPLETE AGREEMENT ON THE SCIENTIFIC DATA." (AUTHOR/AL)

JOURNAL CITATION: BIOSCIENCE; 22; 7; 411-419

ACCESSION NUMBER: EJ062101

CLEARINGHOUSE ACCESSION NUMBER: SE506511

PUBLICATION DATE: AUG 72

TITLE: HUMAN COSTS OF NUCLEAR POWER

PERSONAL AUTHOR: SAGAN, L. A.

DESCRIPTOR: *COST EFFECTIVENESS; *ECONOMICS; *ELECTRICITY; *ENERGY; *ENVIRONMENTAL INFLUENCES; *NUCLEAR PHYSICS; *POLLUTION; *PUBLIC HEALTH; *RADIATION; *RESOURCE MATERIALS

ISSUE: CIJDEC72

ABSTRACT: DISCUSSES THE "HUMAN COSTS OF PRODUCING AND USING NUCLEAR FUEL TO GENERATE ELECTRICITY AND...WHETHER THESE COSTS ARE EQUITABLY COMPENSATED FOR AND REPRESENTED IN THE PRICE OF THE ELECTRICITY." ANALYSIS CONSIDERS ESTIMATES OF THE VALUE OF HUMAN LIFE, LOST PRODUCTIVITY, AND POTENTIAL EFFECTS OF RADIATION. (AUTHOR/AL)

JOURNAL CITATION: SCIENCE; 177; 4048; 487-493

ACCESSION NUMBER: EJ062486
 CLEARINGHOUSE ACCESSION NUMBER: SE506430
 PUBLICATION DATE: JUL 72
 TITLE: NUCLEAR SAFETY: DAMAGED FUEL IGNITES A NEW DEBATE IN AEC
 PERSONAL AUTHOR: GILLETTE, ROBERT
 DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; PUBLIC HEALTH; RADIATION; *SAFETY; *REACTOR FUELS
 ISSUE: CIJDEC72
 ABSTRACT: A NEWS REPORT ON THE POSSIBILITY OF A GENERIC PROBLEM WITH FUEL ELEMENT DESIGN IN "SCALED-UP" NUCLEAR POWER PLANTS. SOME DAMAGE HAS BEEN DETECTED IN NEW PLANTS. (AL)
 JOURNAL CITATION: SCIENCE; 177: 4046; 330-331

ACCESSION NUMBER: EJ062494
 CLEARINGHOUSE ACCESSION NUMBER: SE506492
 PUBLICATION DATE: JUN 72
 TITLE: CHEMISTRY NOTES
 DESCRIPTOR: *CHEMICAL REACTIONS; *CHEMISTRY; DEMONSTRATIONS (EDUCATIONAL); *ENERGY; *INSTRUCTION; *LABORATORY PROCEDURES; ORGANIC CHEMISTRY; *SCIENCE ACTIVITIES; SECONDARY SCHOOL SCIENCE
 ISSUE: CIJDEC72
 ABSTRACT: SHORT ARTICLES ON THE DETERMINATION OF THE ACTIVATION ENERGY OF THE THIOSULPHATE-ACID REACTION, AN EXPERIMENT ON HYDROLYSIS OF SIMILAR METAL SALT SOLUTIONS, THE PREPARATION AND ELECTROLYTIC PROPERTIES OF IODINE MONOCHLORIDE AND IODINE TRICHLORIDE, AND INSTRUCTIONS FOR APPARATUS ENABLING LABORATORY STUDY OF THE THERMAL CRACKING OF ETHYLBENZENE. (AL)
 JOURNAL CITATION: SCHOOL SCIENCE REVIEW; 53: 185; 751-754

ACCESSION NUMBER: EJ063908
 CLEARINGHOUSE ACCESSION NUMBER: SE506657
 PUBLICATION DATE: SEP 72
 TITLE: ELECTROCHEMICAL REACTIONS IN BATTERIES: EMPHASIZING THE HMO2 CATHODE OF DRY CELLS
 PERSONAL AUTHOR: KOZAWA, AKIYA; POWERS, R. A.
 DESCRIPTOR: *CHEMICAL REACTIONS; *CHEMISTRY; ENERGY; RESEARCH REVIEWS (PUBLICATIONS); RESOURCE MATERIALS; THERMODYNAMICS; *DRY CELLS
 ISSUE: CIJEABST
 ABSTRACT: PROVIDES A SIMPLIFIED, UP-TO-DATE SUMMARY OF THE ELECTROCHEMICAL REACTIONS IN DRY CELLS, INCLUDING AN ACCOUNT OF SOME EXPERIMENTAL RESULTS THAT PROVIDE THE EVIDENCE FOR THE VIEW PRESENTED. (AL)
 JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 49: 9; 587-591

ACCESSION NUMBER: EJ064036
 CLEARINGHOUSE ACCESSION NUMBER: SE506676
 PUBLICATION DATE: SEP 72
 TITLE: ENERGY OPTIONS: CHALLENGE FOR THE FUTURE
 PERSONAL AUTHOR: HAMMOND, ALLEN L.
 DESCRIPTOR: ECONOMICS; ELECTRICITY; *ENERGY; *ENVIRONMENTAL INFLUENCES; *NATURAL RESOURCES; *NUCLEAR PHYSICS; *PETROLEUM INDUSTRY; PREDICTION
 ISSUE: CIJEABST
 ABSTRACT: SUMMARIZES ALTERNATIVE TECHNOLOGICAL POSSIBILITIES FOR ENSURING A SUPPLY OF ENERGY FOR THE UNITED STATES, INCLUDING NUCLEAR TECHNOLOGY, SOLAR ENERGY, SHALE OIL AND COAL GASIFICATION, LOW POLLUTANT TECHNIQUES FOR BURNING COAL, AND A FUEL CELL SUITABLE FOR COMMERCIAL USE. REPORTS THE EXTENT OF EXISTING RESEARCH AND DEVELOPMENT EFFORTS. (AL)
 JOURNAL CITATION: SCIENCE; 177: 4052; 875-876

ACCESSION NUMBER: EJ064038
 CLEARINGHOUSE ACCESSION NUMBER: SE506776
 PUBLICATION DATE: SEP 72
 TITLE: GEOTHERMAL ENERGY: AN EMERGING MAJOR RESOURCE
 PERSONAL AUTHOR: HAMMOND, ALLEN L.
 DESCRIPTOR: EARTH SCIENCE; *ELECTRICITY; *ENERGY; *NATURAL RESOURCES
 ISSUE: CIJEABST
 JOURNAL CITATION: SCIENCE; 177: 4053; 978-980

ACCESSION NUMBER: EJ064832
 CLEARINGHOUSE ACCESSION NUMBER: SE506911
 PUBLICATION DATE: OCT 72
 TITLE: NEEDS AND TRENDS IN CONGRESSIONAL DECISION-MAKING
 PERSONAL AUTHOR: MOSHER, CHARLES A.
 DESCRIPTOR: ENERGY; ENVIRONMENTAL INFLUENCES; *FEDERAL GOVERNMENT; GOVERNMENT ROLE; *LEGISLATORS; *POLITICAL SCIENCE; *SOCIAL PROBLEMS; *TECHNOLOGY
 ISSUE: CIJEABST
 ABSTRACT: A CONGRESSMAN LISTS 13 EXAMPLES OF METHODS THAT CONGRESS IS DEVELOPING AND USING TO PROVIDE A BETTER TECHNICAL INFORMATION BASE FOR MAKING TECHNOLOGICAL DECISIONS, INCLUDING THOSE CONCERNED WITH ENVIRONMENTAL IMPACT. EXAMPLES OF LEGISLATION ILLUSTRATE SOME POINTS. (AL)
 JOURNAL CITATION: SCIENCE; 178: 4057; 134-138

ACCESSION NUMBER: EJ064834
 CLEARINGHOUSE ACCESSION NUMBER: SE506958
 PUBLICATION DATE: OCT 72
 TITLE: THE CEQ ANNUAL REPORT: CONTROVERSIAL CHAPTERS WITHHELD
 PERSONAL AUTHOR: PETER, WALTER G., III
 DESCRIPTOR: *ANNUAL REPORTS; ENERGY; *ENVIRONMENTAL INFLUENCES; FEDERAL GOVERNMENT; *POLITICS; POLLUTION; *COUNCIL ON ENVIRONMENTAL QUALITY
 ISSUE: CIJEABST
 ABSTRACT: SUMMARIZES THE CONTENT OF THE THIRD ANNUAL REPORT AND DISCUSSES THE CONTROVERSY CONCERNING THE "WITHHOLDING" OF CHAPTERS CONCERNING THE ENERGY CRISIS, RECYCLING, AND THE POLLUTION OF THE DELAWARE RIVER VALLEY. POSSIBLE POLITICAL MOTIVATIONS ARE DISCUSSED. (AL)
 JOURNAL CITATION: BIOSCIENCE; 22: 10; 609

ACCESSION NUMBER: EJ067225
 CLEARINGHOUSE ACCESSION NUMBER: SE507025
 PUBLICATION DATE: OCT 72
 TITLE: ENERGY CONSERVATION
 PERSONAL AUTHOR: ABELSON, PHILIP H.
 DESCRIPTOR: BOOK REVIEWS; ECONOMICS; EDITORIALS; *ENERGY; ENVIRONMENTAL INFLUENCES; *FOREIGN POLICY; *GOVERNMENT ROLE; *NATURAL RESOURCES; *PETROLEUM INDUSTRY; RESOURCE MATERIALS
 ISSUE: CIJEABST
 ABSTRACT: COMMENTS ON "THE POTENTIAL FOR ENERGY CONSERVATION," A STUDY BY THE OFFICE OF EMERGENCY PREPAREDNESS, EMPHASIZING THE COMING DEPENDENCE ON FOREIGN OIL AND PRESSES FOR GOVERNMENT INFLUENCE TO ENCOURAGE DEVELOPMENT OF MORE EFFICIENT CARS. (AL)
 JOURNAL CITATION: SCIENCE; 178: 4059; 355

ACCESSION NUMBER: EJ067226
 CLEARINGHOUSE ACCESSION NUMBER: SE507185
 PUBLICATION DATE: NOV 72
 TITLE: FUEL FROM WASTES: A MINOR ENERGY SOURCE
 PERSONAL AUTHOR: MAUGH, THOMAS H., II
 DESCRIPTOR: *ENERGY; *RECYCLING; TECHNOLOGY; *WASTES
 ISSUE: CIJEABST
 ABSTRACT: DESCRIBES CURRENT RESEARCH AND DEVELOPMENT AIMED AT PRODUCING TECHNIQUES FOR CONVERSION OF ORGANIC WASTES TO FUEL, ALTHOUGH THESE SOURCES CAN ONLY PROVIDE LESS THAN 10
 JOURNAL CITATION: SCIENCE; 178: 4061; 599-602

ACCESSION NUMBER: EJ067227
 CLEARINGHOUSE ACCESSION NUMBER: SE507201
 PUBLICATION DATE: NOV 72
 TITLE: ELECTRICITY DEMAND GROWTH AND THE ENERGY CRISIS
 PERSONAL AUTHOR: CHAPMAN, DUANE; AND OTHERS
 DESCRIPTOR: ECONOMIC FACTORS; *ELECTRICITY; *ENERGY; *ENVIRONMENTAL INFLUENCES; FUELS; POPULATION TRENDS; *PREDICTION; RESOURCES; *TREND ANALYSIS
 ISSUE: CIJEABST
 ABSTRACT: AN ANALYSIS OF ELECTRICITY DEMAND PROJECTIONS SUGGESTS THE LONG-RUN DEMAND HAS BEEN PREVIOUSLY OVERESTIMATED. PROJECTIONS BASED UPON ALTERNATE DEMOGRAPHIC AND ECONOMIC PREDICTIONS ARE PRESENTED. (AL)
 JOURNAL CITATION: SCIENCE; 178: 4062; 703-708

ACCESSION NUMBER: EJ067228
CLEARINGHOUSE ACCESSION NUMBER: SE507205
PUBLICATION DATE: NOV 72
TITLE: PHOTOVOLTAIC CELLS: DIRECT CONVERSION OF SOLAR ENERGY
PERSONAL AUTHOR: HAMMOND, ALLEN L.
DESCRIPTOR: *ELECTRICITY; *ENERGY; ENVIRONMENTAL INFLUENCES; PHYSICAL SCIENCES; RESOURCES; TECHNOLOGY
ISSUE: CIJEABST
JOURNAL CITATION: SCIENCE: 178: 4062: 732-733

ACCESSION NUMBER: EJ067229
CLEARINGHOUSE ACCESSION NUMBER: SE507272
PUBLICATION DATE: NOV 72
TITLE: HYDROGEN: SYNTHETIC FUEL OF THE FUTURE
PERSONAL AUTHOR: MAUGH, THOMAS H., II
DESCRIPTOR: *CHEMISTRY; *ENERGY; ENVIRONMENTAL INFLUENCES; *POWER; *RESOURCES; SCIENTIFIC RESEARCH; TECHNOLOGY; HYDROGEN
ISSUE: CIJEABST
JOURNAL CITATION: SCIENCE: 178: 4063: 849-852

ACCESSION NUMBER: EJ067230
CLEARINGHOUSE ACCESSION NUMBER: SE507316
PUBLICATION DATE: DEC 72
TITLE: NEW MEANS OF TRANSMITTING ELECTRICITY: A THREE-WAY RACE
PERSONAL AUTHOR: METZ, WILLIAM D.
DESCRIPTOR: *ELECTRICITY; *ENERGY; RESOURCES; TECHNOLOGY; SUPERCONDUCTIVITY; UNDERGROUND POWER LINES
ISSUE: CIJEABST
JOURNAL CITATION: SCIENCE: 178: 4064: 968-970

ACCESSION NUMBER: EJ068012
CLEARINGHOUSE ACCESSION NUMBER: SE507224
PUBLICATION DATE: DEC 72
TITLE: ENVIRONMENTAL IMPACT OF ELECTRICAL GENERATION: NUCLEAR AND CONVENTIONAL
PERSONAL AUTHOR: McDERMOTT, JOHN J.
DESCRIPTOR: *ADULT EDUCATION; *ECOLOGICAL; *ENERGY; ENVIRONMENTAL EDUCATION; *INSTRUCTION; *SECONDARY SCHOOL SCIENCE
ISSUE: CIJEABST
JOURNAL CITATION: SCIENCE TEACHER: 39: 9: 35

ACCESSION NUMBER: EJ068796
CLEARINGHOUSE ACCESSION NUMBER: SE507098
PUBLICATION DATE: NOV 72
TITLE: CENTER VIEWS ENERGY PROBLEMS ON GLOBAL BASIS
DESCRIPTOR: *ECOLOGICAL; *ENERGY; *ENVIRONMENT; *SOCIAL INFLUENCES; SOLAR RADIATION; *TECHNOLOGY; UTILITIES; *WORLD PROBLEMS
ISSUE: CIJEABST
ABSTRACT: THE NATIONAL CENTER FOR ENERGY MANAGEMENT AND POWER AT THE UNIVERSITY OF PENNSYLVANIA IS COMMITTED TO ADVANCING THE TECHNOLOGY OF ENERGY CONVERSION AND TRAINING PEOPLE TO MANAGE EFFECTIVELY WHATEVER FORM THE ENERGY INDUSTRY ASSUMES IN THE FUTURE, INCLUDING MEASUREMENT OF THE IMPACT OF DEVELOPMENTS ON BOTH PRODUCER AND CONSUMER. (DF)
JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS: 50: 45: 23-24

ACCESSION NUMBER: EJ068799
CLEARINGHOUSE ACCESSION NUMBER: SE507148
PUBLICATION DATE: NOV 72
TITLE: ENTROPY AND THE SECOND LAW
PERSONAL AUTHOR: KOONS, L. F.
DESCRIPTOR: *COLLEGE SCIENCE; *FUNDAMENTAL CONCEPTS; INSTRUCTION; *PHYSICAL SCIENCES; *SCIENTIFIC CONCEPTS; ENERGY; ENTROPY
ISSUE: CIJEABST
ABSTRACT: SECOND LAW OF THERMODYNAMICS IS DESCRIBED IN SEVERAL WAYS. EXPLANATIONS OF THE CONCEPTS OF ENERGY AND ENTROPY ARE PROVIDED. (PS)
JOURNAL CITATION: SCIENCE ACTIVITIES: 8: 3

ACCESSION NUMBER: EJ068803
CLEARINGHOUSE ACCESSION NUMBER: SE507159
PUBLICATION DATE: NOV 72
TITLE: SOLAR ENERGY - AN OPTION FOR FUTURE ENERGY PRODUCTION
PERSONAL AUTHOR: GLASER, PETER E.
DESCRIPTOR: *ECOLOGICAL; *ENERGY; *ENVIRONMENTAL EDUCATION; ENVIRONMENTAL RESEARCH; *PHYSICS; *SOLAR RADIATION
ISSUE: CIJEABST
ABSTRACT: DISCUSSES THE EXPONENTIAL GROWTH OF ENERGY CONSUMPTION AND FUTURE CONSEQUENCES. POSSIBLE METHODS OF CONVERTING SOLAR ENERGY TO POWER SUCH AS DIRECT ENERGY CONVERSION, FOCUSING COLLECTORS, SELECTIVE RADIATION ABSORBERS, OCEAN THERMAL GRADIENT, AND SPACE SOLAR POWER ARE CONSIDERED. (DF)
JOURNAL CITATION: PHYSICS TEACHER: 10: 8: 443-449

ACCESSION NUMBER: EJ068810
CLEARINGHOUSE ACCESSION NUMBER: SE507217
PUBLICATION DATE: DEC 72
TITLE: ENERGY AND THE ENVIRONMENT
PERSONAL AUTHOR: FOWLER, JOHN M.
DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; PHYSICS; RESOURCE MATERIALS; SCIENCE EDUCATION; SPEECHES; THERMODYNAMICS
ISSUE: CIJEABST
ABSTRACT: PROBLEMS CONCERNING ENERGY SHORTAGE ARE PRESENTED ALONG WITH POSSIBLE SOLUTIONS. THREE IMPORTANT AREAS OF CONCERN ARE (1) ENERGY-ORIGIN AND USES, (2) ENVIRONMENTAL EFFECTS OF ENERGY USE, AND (3) RESOURCES AND NEW SOURCES. (DF)
JOURNAL CITATION: SCIENCE TEACHER: 39: 9: 10-22

ACCESSION NUMBER: EJ068819
CLEARINGHOUSE ACCESSION NUMBER: SE507393
PUBLICATION DATE: DEC 72
TITLE: U. N. ENVIRONMENTAL PROGRAM: DESPITE HITCH, COMING ON STRONG
PERSONAL AUTHOR: WALSH, JOHN
DESCRIPTOR: *CONSUMER ECONOMICS; *ENERGY; NATURAL RESOURCES; *PHYSICAL SCIENCES; SOCIAL PLANNING
ISSUE: CIJEABST
ABSTRACT: DESPITE DIFFERENCES AMONG THREE POWER BLOCKS IN THE UNITED NATIONS, MOST NATIONS SEEM TO HAVE ACCEPTED THE IDEA OF GLOBAL ENVIRONMENT PROTECTION. FUTURE COOPERATION FROM ALL MEMBERS IS EXPECTED IN THIS ENDEAVOR TO MAKE THE UNITED NATIONS EFFORTS SUCCESSFUL. (PS)
JOURNAL CITATION: SCIENCE: 178: 4066: 1183-1185

ACCESSION NUMBER: EJ068824
CLEARINGHOUSE ACCESSION NUMBER: SE507420
PUBLICATION DATE: DEC 72
TITLE: FUEL CELLS: DISPERSED GENERATION OF ELECTRICITY
PERSONAL AUTHOR: MAUGH, THOMAS H., II
DESCRIPTOR: *ENERGY; *PHYSICAL SCIENCES; *POWER MECHANICS; PRODUCTION TECHNIQUES; *RESOURCE MATERIALS; *RESOURCES
ISSUE: CIJEABST
ABSTRACT: FUEL CELLS HAVE SEVERAL ADVANTAGES OVER CONVENTIONAL WAYS OF PRODUCING POWER. A BRIEF EXPLANATION OF OPERATING PRINCIPLES, STRUCTURE, AND ECONOMIC CONSIDERATIONS IS PRESENTED. (PS)
JOURNAL CITATION: SCIENCE: 178: 4067: 1273-1274

ACCESSION NUMBER: EJ068950
CLEARINGHOUSE ACCESSION NUMBER: SE507358
PUBLICATION DATE: DEC 72
TITLE: CONSERVATION OF ENERGY: THE POTENTIAL FOR MORE EFFICIENT USE
PERSONAL AUTHOR: HAMMOND, ALLEN L.
DESCRIPTOR: *ENERGY; NATURAL RESOURCES; *PRESERVATION; *RESOURCES
ISSUE: CIJEABST
ABSTRACT: CONSERVATION OF ENERGY IS BECOMING A MAJOR CONCERN. AUTHOR DESCRIBES MANY USES OF ENERGY IN HOMES, OFFICES AND OTHER PLACES WHICH CAN BE MODIFIED. (PS)
JOURNAL CITATION: SCIENCE: 178: 4065: 1079-1081

ACCESSION NUMBER: EJ069821
 CLEARINGHOUSE ACCESSION NUMBER: SE507791
 PUBLICATION DATE: FEB 73
 TITLE: THE BUDGET OF THE U.S. GOVERNMENT 1974, ENERGY
 PERSONAL AUTHOR: GILLETTE, ROBERT
 DESCRIPTOR: *BUDGETING; *ENERGY; *FEDERAL AID; *FEDERAL
 LEGISLATION; *FEDERAL PROGRAMS; *NATURAL RESOURCES;
 NEWSLETTERS
 ISSUE: CIJEABST
 JOURNAL CITATION: SCIENCE: 179: 4L/3: 549-550

ACCESSION NUMBER: EJ070366
 CLEARINGHOUSE ACCESSION NUMBER: SE507602
 PUBLICATION DATE: JAN 73
 TITLE: SOLAR SEA POWER
 PERSONAL AUTHOR: ZENER, CLARENCE
 DESCRIPTOR: ECOLOGY; ELECTRICITY; *ENERGY; *PHYSICAL
 SCIENCES; RESOURCE MATERIALS; *SOLAR RADIATION;
 THERMODYNAMICS
 ISSUE: CIJEABST
 ABSTRACT: HEAT ENGINES OPERATING IN THE TROPICAL OCEANS
 COULD PROVIDE A SOURCE OF ECONOMIC POLLUTION-FREE
 ELECTRICITY. A DISCUSSION OF SOLAR SEA PLANTS AND HOW THEY
 COULD OPERATE IS PRESENTED. (DF)
 JOURNAL CITATION: PHYSICS TODAY: 26: 1: 48-53

ACCESSION NUMBER: EJ070510
 CLEARINGHOUSE ACCESSION NUMBER: SE507599
 PUBLICATION DATE: JAN 73
 TITLE: POWER GAS AND COMBINED CYCLES: CLEAN POWER FROM
 FOSSIL FUELS
 PERSONAL AUTHOR: METZ, WILLIAM D.
 DESCRIPTOR: *ELECTROMECHANICAL TECHNOLOGY; *ENERGY;
 *NATURAL RESOURCES; RESEARCH PROBLEMS; *RESOURCES;
 *SCIENTIFIC RESEARCH
 ISSUE: CIJEABST
 ABSTRACT: THE COMBINED-CYCLE SYSTEM IS CURRENTLY REGARDED
 AS A USEFUL PROCEDURE FOR PRODUCING ELECTRICITY. THIS SYSTEM
 CAN BURN NATURAL GAS AND OIL DISTILLATES IN ADDITION TO
 COAL. IN THE FUTURE WHEN NATURAL GAS STOCKS WILL BE LOW,
 COAL MAY BECOME AN IMPORTANT FUEL FOR SUCH SYSTEMS.
 CONSIDERABLE EFFORT MUST BE MADE FOR RESEARCH ON COAL
 GASIFICATION AND RELATED ASPECTS. (PS)
 JOURNAL CITATION: SCIENCE: 179: 4068: 54-56

ACCESSION NUMBER: EJ070511
 CLEARINGHOUSE ACCESSION NUMBER: SE507603
 PUBLICATION DATE: JAN 73
 TITLE: ENERGY AND THE FUTURE: RESEARCH PRIORITIES AND
 NATIONAL POLICY
 PERSONAL AUTHOR: HAMMOND, ALLEN L.
 DESCRIPTOR: *ENERGY; NATIONAL PROGRAMS; *NATURAL RESOURCES;
 *POLICY; RESEARCH; *RESOURCES; *SCIENTIFIC RESEARCH
 ISSUE: CIJEABST
 ABSTRACT: ARTICLE PROVIDES AN ACCOUNT OF ALTERNATIVES FOR
 SOLVING ENERGY SHORTAGE PROBLEMS IN FUTURE YEARS. A NATIONAL
 POLICY IS NEEDED. MORE CONCENTRATED EFFORT SHOULD BE MADE TO
 DEVELOP TECHNOLOGIES FOR CONVERSION OF ENERGY FROM
 CONVENTIONAL AND NON-CONVENTIONAL RESOURCES SO THAT ENERGY
 IS CHEAPER, AVAILABLE FOR USE AND WITHOUT ENVIRONMENTAL
 HAZARDS. (PS)
 JOURNAL CITATION: SCIENCE: 179: 4069: 164-166

ACCESSION NUMBER: EJ070758
 CLEARINGHOUSE ACCESSION NUMBER: EA503374
 PUBLICATION DATE: JAN 73
 TITLE: NEW SCHOOLS NEED NEW ENERGY CONCEPTS
 PERSONAL AUTHOR: PHIPPS, H. HARRY
 DESCRIPTOR: *CONSERVATION (CONCEPT); COST EFFECTIVENESS;
 ECOLOGICAL FACTORS; *ECOLOGY; EDUCATIONAL ECONOMICS;
 *ENERGY; *FACILITY PLANNING; SCHOOL PLANNING; UTILITIES;
 *ENERGY REQUIREMENTS
 ISSUE: CIJEABST
 ABSTRACT: THOSE PLANNING EDUCATIONAL FACILITIES SHOULD
 RECOGNIZE THE VITAL IMPORTANCE OF ENERGY CONSERVATION AND
 ITS FUTURE EFFECTS ON BOTH THE ECOLOGY OF THE NATION AND THE
 ECONOMICS OF THE SCHOOL. (AUTHOR)
 JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 45: 5:
 34-36

ACCESSION NUMBER: EJ072970
 CLEARINGHOUSE ACCESSION NUMBER: SE507972
 PUBLICATION DATE: MAR 73
 TITLE: ENERGY AND NATIONAL SECURITY
 PERSONAL AUTHOR: ABELSON, PHILIP H.
 DESCRIPTOR: *ECOLOGY; *ENERGY; ENVIRONMENT; FEDERAL
 GOVERNMENT; *FEDERAL PROGRAMS; *NATURAL RESOURCES; RESOURCES
 ISSUE: CIJEABST
 ABSTRACT: DISCUSSED IN THIS EDITORIAL IS THE NEED FOR A
 BROAD AND DETAILED GOVERNMENT POLICY ON ENERGY USE. OIL
 COMPANIES CAN NOT BE GIVEN COMPLETE RESPONSIBILITY TO
 DEMONSTRATE USAGE OF DIFFERENT ENERGY SOURCES. THE
 GOVERNMENT SHOULD CONSTRUCT PLANTS BECAUSE ENERGY IS
 CONNECTED WITH NATIONAL SECURITY. (PS)
 JOURNAL CITATION: SCIENCE: 179: 4076: 857

ACCESSION NUMBER: EJ072971
 CLEARINGHOUSE ACCESSION NUMBER: SE507973
 PUBLICATION DATE: MAR 73
 TITLE: STATE OF THE UNION: AN UPBEAT MESSAGE ON ENVIRONMENT
 PERSONAL AUTHOR: GILLETTE, ROBERT
 DESCRIPTOR: *ANNUAL REPORTS; ECOLOGY; ENERGY; *ENVIRONMENT;
 FEDERAL GOVERNMENT; FEDERAL PROGRAMS; *NATIONAL PROGRAMS;
 *NATURAL RESOURCES; *RESOURCE MATERIALS
 ISSUE: CIJEABST
 JOURNAL CITATION: SCIENCE: 179: 4076: 876

ACCESSION NUMBER: EJ073062
 CLEARINGHOUSE ACCESSION NUMBER: EA503454
 PUBLICATION DATE: FEB 73
 TITLE: THE ENERGY CRISIS, HOW SCHOOLS MAKE IT WORSE, AND
 WHY BOARDS MUST HELP PUT A STOP TO FUEL WASTE
 PERSONAL AUTHOR: RITTMANN, P. RICHARD
 DESCRIPTOR: *COSTS; ELECTRICITY; *ENERGY; EXHAUSTING; *FUEL
 CONSUMPTION; FUELS; LIGHTING; LIGHTING DESIGN; *THERMAL
 ENVIRONMENT; *ENERGY CONSUMPTION
 ISSUE: CIJEABST
 JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL: 160: 2:
 49-52

ACCESSION NUMBER: EJ073282
 CLEARINGHOUSE ACCESSION NUMBER: SE507571
 PUBLICATION DATE: JAN 73
 TITLE: USE OF THE CONCEPT OF ENERGY FOR THE NONSCIENCE
 COURSE
 PERSONAL AUTHOR: COTHERN, C. W.
 DESCRIPTOR: *COLLEGE SCIENCE; *COURSE DESCRIPTIONS;
 CURRICULUM; *ENERGY; INSTRUCTION; *PHYSICS; SCIENCE
 EDUCATION; *SCIENTIFIC CONCEPTS; TEACHING TECHNIQUES
 ISSUE: CIJEABST
 JOURNAL CITATION: PHYSICS TEACHER: 11: 1: 40-41

ACCESSION NUMBER: EJ073696
 CLEARINGHOUSE ACCESSION NUMBER: SE507563
 PUBLICATION DATE: JAN 73
 TITLE: ENERGY IS NOT THE ABILITY TO DO WORK
 PERSONAL AUTHOR: LEHRMAN, ROBERT L.
 DESCRIPTOR: ENERGY; FORCE; *MECHANICS (PHYSICS); *PHYSICS;
 RELATIVITY; *RESOURCE MATERIALS; SCIENCE EDUCATION; SCIENCE
 HISTORY; *SCIENTIFIC PRINCIPLES; THERMODYNAMICS
 ISSUE: CIJEABST
 ABSTRACT: THE COMMON DEFINITION IS SHOWN TO BE FALSE. A
 MODERN DEFINITION MUST BE BASED ON THE FIRST AND SECOND LAWS
 OF THERMODYNAMICS AND IN TERMS OF A SET OF ALGEBRAIC
 EXPRESSIONS WRITTEN IN SUCH A WAY THAT THEIR SUM DOES NOT
 CHANGE WHEN A SYSTEM IS ISOLATED. (DF)
 JOURNAL CITATION: PHYSICS TEACHER: 11: 1: 15-18

ACCESSION NUMBER: EJ074463
 CLEARINGHOUSE ACCESSION NUMBER: SE508036
 PUBLICATION DATE: MAR 73
 TITLE: ALASKAN OIL: COURT RULING REVIVES CANADA PIPELINE
 ISSUE
 PERSONAL AUTHOR: CARTER, LUTHER J.
 DESCRIPTOR: *COURT LITIGATION; *ENERGY; *ENVIRONMENT;
 FUELS; *PETROLEUM INDUSTRY

ISSUE: CIJEABST

JOURNAL CITATION: SCIENCE: 179: 4077: 977-981

ACCESSION NUMBER: EJ074471

CLEARINGHOUSE ACCESSION NUMBER: SE508220

PUBLICATION DATE: MAR 73

TITLE: EFFICIENCY OF ENERGY USE IN THE UNITED STATES

PERSONAL AUTHOR: HIRST, ERIC; MOYERS, JOHN G.

DESCRIPTOR: *AIR CONDITIONING; *ENERGY; ENVIRONMENT;
*ENVIRONMENTAL EDUCATION; *HEATING; MOTION; RESOURCE
MATERIALS; *TRANSPORTATION

ISSUE: CIJEABST

ABSTRACT: DESCRIBES WAYS TO REDUCE ENERGY CONSUMPTION IN TRANSPORTATION, SPACE HEATING, AND AIR CONDITIONING. GREATER EFFICIENCY FOR ENERGY USE FROM AN ENGINEERING POINT OF VIEW IS POSSIBLE IN PRESENT CIRCUMSTANCES. (PS)

JOURNAL CITATION: SCIENCE: 179: 4080: 1299-1304

ACCESSION NUMBER: EJ074475

CLEARINGHOUSE ACCESSION NUMBER: SE508275

PUBLICATION DATE: APR 73

TITLE: ENERGY CRISIS—AN IN-DEPTH VIEW

PERSONAL AUTHOR: MCCORMACK, MIKE

DESCRIPTOR: EDITORIALS; *ENERGY; *ENVIRONMENT; *PHYSICAL
SCIENCES; *RESOURCE MATERIALS; SCIENCE EDUCATION;
*ENVIRONMENTAL PROBLEMS

ISSUE: CIJEABST

ABSTRACT: IT IS ARGUED THAT THE ENERGY CRISIS IS REAL, WILL BE WITH US THE REMAINDER OF THE CENTURY, AND CAN ONLY BE RESOLVED WITH A MANY-FACETED ENERGY R & D PROGRAM AS PART OF A COORDINATED NATIONAL ENERGY POLICY. (DF)

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS: 51: 14: 1-21

ACCESSION NUMBER: EJ074478

CLEARINGHOUSE ACCESSION NUMBER: SE508334

PUBLICATION DATE: APR 73

TITLE: ENERGY CONSERVATION

PERSONAL AUTHOR: LINCOLN, G. A.

DESCRIPTOR: *ECOLOGY; *ENERGY; *ENVIRONMENT; ENVIRONMENTAL
EDUCATION; *REPORTS; *RESOURCE MATERIALS; TECHNOLOGY

ISSUE: CIJEABST

ABSTRACT: THIS ARTICLE IS DIRECTED TO PROVOKING THOUGHT ON HOW TO ATTAIN ECONOMIC AND SOCIAL OBJECTIVES WHILE USING FEWER ENERGY SOURCES. (DF)

JOURNAL CITATION: SCIENCE: 180: 4082: 155-162

ACCESSION NUMBER: EJ074902

CLEARINGHOUSE ACCESSION NUMBER: SE508225

PUBLICATION DATE: MAR 73

TITLE: JELLY BEAN ECOLOGY

PERSONAL AUTHOR: DEEM, ROBERT

DESCRIPTOR: *ELEMENTARY SCHOOL SCIENCE; *ENERGY;
*ENVIRONMENTAL EDUCATION; INSTRUCTION; *INSTRUCTIONAL
MATERIALS; ROLE PLAYING; SCIENCE ACTIVITIES; TEACHING
METHODS

ISSUE: CIJEABST

ABSTRACT: THE CONCEPT OF ENERGY CONSUMPTION CAN BE LEARNED BY ROLE PLAYING, USING JELLY BEANS AS UNITS OF ENERGY WITH CHILDREN AS PRIMARY, SECONDARY, AND TERTIARY CONSUMERS. FOLLOW-UP QUESTIONS ARE SUGGESTED FOR FURTHER DISCUSSION. (PS)

JOURNAL CITATION: SCIENCE AND CHILDREN: 10: 6: 12-14

ACCESSION NUMBER: EJ075232

CLEARINGHOUSE ACCESSION NUMBER: SE508438

PUBLICATION DATE: APR 73

TITLE: PROSPECTS FOR FUSION POWER

PERSONAL AUTHOR: POST, RICHARD F.

DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; *PHYSICS; RESEARCH;
*RESOURCE MATERIALS; SCIENCE EDUCATION

ISSUE: CIJEABST

ABSTRACT: SOME RECENT EXPERIMENTAL RESULTS HAVE GIVEN A CLEARER SENSE OF DIRECTION AND RENEWED OPTIMISM FOR RESEARCH ON CONTROLLED THERMONUCLEAR REACTIONS. (AUTHOR/DF)

JOURNAL CITATION: PHYSICS TODAY: 26: 4: 31-39

ACCESSION NUMBER: EJ075372

CLEARINGHOUSE ACCESSION NUMBER: SE508085

PUBLICATION DATE: MAR 73

TITLE: SOLAR ENERGY: PROPOSAL FOR A MAJOR RESEARCH PROGRAM

PERSONAL AUTHOR: HAMMOND, ALLEN L.

DESCRIPTOR: *ENERGY; ENVIRONMENT; *FUELS; HEAT; *NATURAL
RESOURCES; *RESEARCH NEEDS; RESEARCH PROBLEMS; *SOLAR
RADIATION

ISSUE: CIJEABST

JOURNAL CITATION: SCIENCE: 179: 4078: 1116

ACCESSION NUMBER: EJ076123

CLEARINGHOUSE ACCESSION NUMBER: SE508111

PUBLICATION DATE: MAR 73

TITLE: THE CASE AGAINST THE FAST BREEDER REACTOR: AN ANTI-NUCLEAR ESTABLISHMENT VIEW.

PERSONAL AUTHOR: LOVINS, AMORY B.

DESCRIPTOR: *ENERGY; ENVIRONMENT; *ENVIRONMENTAL EDUCATION;
*FEDERAL PROGRAMS; OPINIONS; PROGRAM DEVELOPMENT;
*RADIATION; *SCIENTIFIC RESEARCH

ISSUE: CIJEABST

ABSTRACT: ENVIRONMENTALISTS LOBBY POINTS OUT THAT HAZARD WHICH MAY RESULT FROM MISTAKES IN PROPOSED FAST BREEDER REACTOR FOR ADDITIONAL ENERGY CAN BE DETRIMENTAL FOR HUMANITY. SUCH PROJECTS MUST BE CAREFULLY PLANNED AND CAUTIOUSLY EXECUTED. (PS)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS: 29: 3: 29-35

ACCESSION NUMBER: EJ076136

CLEARINGHOUSE ACCESSION NUMBER: SE508589

PUBLICATION DATE: APR 73

TITLE: PHOTOSYNTHESIS MAY BE SOURCE FOR FUELS

DESCRIPTOR: *ENERGY; ENVIRONMENT; FUEL CONSUMPTION; *FUELS;
*PHOTOSYNTHESIS; *RESOURCE MATERIALS

ISSUE: CIJEABST

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS: 51: 18: 20

ACCESSION NUMBER: EJ076226

CLEARINGHOUSE ACCESSION NUMBER: EA503682

PUBLICATION DATE: APR 73

TITLE: THE CONTROL OF LIGHTING HEAT

DESCRIPTOR: CEILING; *CONSERVATION (CONCEPT); CONTROLLED
ENVIRONMENT; *ELECTRICAL SYSTEMS; *ENERGY; *HEATING;
ILLUMINATION LEVELS; *LIGHTING; SCHOOL BUILDINGS; HEAT
RECOVERY SYSTEMS

ISSUE: CIJEABST

ABSTRACT: THE TREND TOWARD INCREASED LIGHTING HAS ACCELERATED THE ACCEPTANCE OF HEAT RECOVERY SYSTEMS. A HEATING-LIGHTING-COOLING SYSTEM IS A RESPONSIBLE AND EFFICIENT USE OF ENERGY FOR FUTURE SCHOOL BUILDINGS. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS: 3-5

ACCESSION NUMBER: EJ077726

CLEARINGHOUSE ACCESSION NUMBER: SE508574

PUBLICATION DATE: MAR/APR 73

TITLE: GEOTHERMAL ENERGY: PROSPECTS AND PROBLEMS

PERSONAL AUTHOR: RITTER, WILLIAM W.

DESCRIPTOR: *ELECTRICITY; *ENERGY; ENVIRONMENT; *NATURAL
RESOURCES; POLLUTION; *UTILITIES

ISSUE: CIJEABST

ABSTRACT: AN EXAMINATION OF GEOTHERMAL ENERGY AS A MEANS OF INCREASING THE UNITED STATES POWER RESOURCES WITH MINIMAL POLLUTION PROBLEMS. DEVELOPED AND PLANNED GEOTHERMAL-ELECTRIC POWER INSTALLATIONS AROUND THE WORLD, CAPACITIES, INSTALLATION DATES, ETC., ARE REVIEWED. ENVIRONMENTAL IMPACT, PROBLEMS, ETC. ARE DISCUSSED. (LK)

JOURNAL CITATION: JOURNAL OF ENVIRONMENTAL HEALTH: 35: 5: 432-435

ACCESSION NUMBER: EJ078525

CLEARINGHOUSE ACCESSION NUMBER: EA503791

PUBLICATION DATE: MAY 73

TITLE: THE ENERGY SAVERS: HEAT RECOVERY WHEELS

DESCRIPTOR: *CONSERVATION (CONCEPT); ELECTRICAL SYSTEMS;
*ENERGY; *HEAT; *MECHANICAL EQUIPMENT; *MERCHANDISE
INFORMATION; ENERGY RECOVERY WHEEL

ISSUE: CIJEABST

ABSTRACT: DESCRIBES THE OPERATION AND BENEFITS OF EQUIPMENT DESIGNED TO SALVAGE, COLLECT, STORE, AND GENERALLY CONSERVE HEAT ENERGY. (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS; 3-5

ACCESSION NUMBER: EJ070327

CLEARINGHOUSE ACCESSION NUMBER: SE508337

PUBLICATION DATE: DEC 72

TITLE: THE CANBERRA MONOPOLAR GENERATOR

PERSONAL AUTHOR: KANEFF, J.

DESCRIPTOR: *COLLEGE SCIENCE; *ELECTRIC MOTORS; *ELECTRICITY; *ENERGY; *PHYSICAL SCIENCES; *PHYSICS; *RESOURCE MATERIALS; *SCIENCE FACILITIES; *SCIENTIFIC RESEARCH

ISSUE: CIJEABST

ABSTRACT: DETAILS OF THE GENERATOR USED IN A PROTON-SYNCHROTRON PARTICLE ACCELERATOR ARE DESCRIBED. (PS)

JOURNAL CITATION: SOUTH AUSTRALIAN SCIENCE TEACHERS JOURNAL; 724: 20-29

ACCESSION NUMBER: EJ079414

CLEARINGHOUSE ACCESSION NUMBER: SE508514

PUBLICATION DATE: APR 73

TITLE: ENERGY CONSERVATION AND WASTE RECYCLING: TAKING ADVANTAGE OF URBAN CONGESTION

PERSONAL AUTHOR: KRAMER, EUGENE

DESCRIPTOR: *CONSERVATION EDUCATION; *ENERGY; *ENVIRONMENTAL EDUCATION; *RECYCLING; *CITY PLANNING; *FUELS

ISSUE: CIJEABST

ABSTRACT: CONGESTED CITIES CAN BE USED TO ADVANTAGE IN CONSERVING ENERGY. WITH PRESENT TECHNOLOGY, SOLID WASTES CAN BE RECYCLED AND USED IN ENVIRONMENTAL-INDUSTRIAL PARKS TO SUPPLY ENERGY FOR CITIES. (PS)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 29: 4: 13-18

ACCESSION NUMBER: EJ079420

CLEARINGHOUSE ACCESSION NUMBER: SE508767

PUBLICATION DATE: MAY 73

TITLE: NAS FORUMS FOCUS ON NATIONAL SCIENCE TOPICS

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FOOD AND DRUG INSPECTORS; *GOVERNMENT ROLE; *PUBLIC POLICY; *SCIENCES; NATIONAL ACADEMY OF SCIENCES

ISSUE: CIJEABST

ABSTRACT: A SERIES OF PUBLIC MEETINGS DESIGNED TO FOCUS ON COMPLEX AND PERSISTENT PROBLEMS OF NATIONAL IMPORTANCE INVOLVING SCIENCE HAS BEEN LAUNCHED. TOPICS SUCH AS DRUGS, ENERGY, AND NATURAL DISASTERS ARE INCLUDED. (DF)

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 51: 22: 11

ACCESSION NUMBER: EJ079423

CLEARINGHOUSE ACCESSION NUMBER: SE508814

PUBLICATION DATE: JUN 73

TITLE: ENERGY: SHORTAGES LOOM, BUT CONSERVATION LAGS

PERSONAL AUTHOR: HOLDEN, CONSTANCE

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL INFLUENCES; *ECOLOGY; *GOVERNMENT ROLE; *NATURAL RESOURCES; *RESOURCES; *SCIENCE EDUCATION

ISSUE: CIJEABST

ABSTRACT: IT IS ARGUED THAT IMMEDIATE STEPS NEED TO BE TAKEN IN ORDER TO BUY TIME UNTIL NEW, CLEAN POWER SOURCES BECOME AVAILABLE. (DF)

JOURNAL CITATION: SCIENCE; 180: 4091: 1155-1158

ACCESSION NUMBER: EJ079425

CLEARINGHOUSE ACCESSION NUMBER: SE508821

PUBLICATION DATE: MAR/APR 73

TITLE: WHICH WAY TO THE ENERGY GAP?

PERSONAL AUTHOR: LOFTAS, TONY

DESCRIPTOR: *DEPLETED RESOURCES; *ENERGY; *NEEDS; *TREND ANALYSIS; *FUEL CONSUMPTION; *INDUSTRIALIZATION; *NATURAL RESOURCES; *SOCIAL SCIENCES; *TECHNOLOGICAL ADVANCEMENT

ISSUE: CIJEABST

ABSTRACT: THE HIGHER COST OF ENERGY IN THE FUTURE MIGHT WELL DAMPEN THE CURRENT ARDOUR FOR INDUSTRIALIZATION. CHEAP SOURCES ARE THE ONES MOST LIKELY TO DISAPPEAR, POINTING TO A FURTHER DISPARITY BETWEEN INDUSTRIALIZED AND NONINDUSTRIALIZED SOCIETIES. (BL)

JOURNAL CITATION: CERES; 6: 2: 27-31

ACCESSION NUMBER: EJ080340

CLEARINGHOUSE ACCESSION NUMBER: SE508938

PUBLICATION DATE: JUN 73

TITLE: HYDROGEN: ITS FUTURE ROLE IN THE NATION'S ENERGY ECONOMY

PERSONAL AUTHOR: WINSCHKE, W. E.; AND OTHERS

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS; *RESOURCE MATERIALS; *UTILITIES; *NATURAL RESOURCES; *SCIENCE EDUCATION; *TECHNOLOGY; *HYDROGEN

ISSUE: CIJEABST

ABSTRACT: ADVOCATES THE DEVELOPMENT OF A HYDROGEN FUEL ECONOMY AS AN ALTERNATIVE TO THE PREDOMINATELY ELECTRIC ECONOMY BASED UPON NUCLEAR PLANTS AND DEPLETING FOSSIL FUEL SUPPLIES. EVALUATES THE ECONOMIC AND ENVIRONMENTAL BENEFITS OF HYDROGEN ENERGY DELIVERY SYSTEMS IN THE RESIDENTIAL AND TRANSPORTATION SECTORS. (JR)

JOURNAL CITATION: SCIENCE; 180: 4093: 1325-1332

ACCESSION NUMBER: EJ080341

CLEARINGHOUSE ACCESSION NUMBER: SE508939

PUBLICATION DATE: JUN 73

TITLE: BRITAIN AND ENERGY POLICY: PROBLEMS OF INTERDEPENDENCE

PERSONAL AUTHOR: WALSH, JOHN

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS; *RESOURCE MATERIALS; *TECHNOLOGY; *NATURAL RESOURCES; *SCIENCE EDUCATION; *UTILITIES; *BRITAIN

ISSUE: CIJEABST

ABSTRACT: DISCUSSES BRITAIN'S ENERGY POLICIES AND CHANGING ENERGY SOURCES SINCE WORLD WAR II. NORTH SEA NATURAL GAS AND OIL SHOULD PREVENT SHORTAGES IN THE NEAR FUTURE. PLANNING IS COMPLICATED BY BRITAIN'S ENTRY INTO THE EUROPEAN COMMON MARKET, QUESTIONABLE PROGRESS IN NUCLEAR PRODUCTION, AND THE UNCERTAIN AVAILABILITY OF MIDDLE EASTERN OIL. (JR)

JOURNAL CITATION: SCIENCE; 180: 4093: 1343-1347

ACCESSION NUMBER: EJ080343

CLEARINGHOUSE ACCESSION NUMBER: SE508972

PUBLICATION DATE: JUL 73

TITLE: ENERGY CONSERVATION THROUGH EFFECTIVE UTILIZATION

PERSONAL AUTHOR: BERG, CHARLES A.

DESCRIPTOR: *BUILDING DESIGN; *ENERGY; *FUEL CONSUMPTION; *INDUSTRY; *NATURAL RESOURCES; *ENVIRONMENTAL EDUCATION; *FUELS; *RESOURCE MATERIALS; *RESOURCES

ISSUE: CIJEABST

ABSTRACT: DISCUSSES VARIOUS WAYS IN WHICH THE DEMAND FOR ENERGY COULD BE DECREASED, FOCUSING NOT SO MUCH ON DISCOURAGING DEMAND BY INCREASING PRICES, AS ON REDUCING ENERGY CONSUMPTION BY IMPROVING EFFICIENCY OF ENERGY UTILIZATION IN BUILDINGS AND IN INDUSTRY. (JR)

JOURNAL CITATION: SCIENCE; 181: 4095: 128-138

ACCESSION NUMBER: EJ080763

CLEARINGHOUSE ACCESSION NUMBER: EM503475

PUBLICATION DATE: AUG 73

TITLE: THE FUTURIZING OF A POWER COMPANY

PERSONAL AUTHOR: HNSLAND, DONALD O.

DESCRIPTOR: *UTILITIES; *SOCIAL CHANGE; *ENVIRONMENTAL RESEARCH; *PROBABILITY; *ENERGY; *SOCIAL DEVELOPMENT; *SOCIAL ENVIRONMENT; *PREDICTION; *FUTURES (OF SOCIETY); *NORTHERN STATES POWER COMPANY; *MINNESOTA

ISSUE: CIJEABST

ABSTRACT: A DESCRIPTION OF THE PROGRAM SET UP BY THE NORTHERN STATES POWER COMPANY, MINNEAPOLIS, MINNESOTA, TO PREPARE ITSELF FOR INCREASING CHANGE IN THE SOCIAL ENVIRONMENT IN WHICH THE COMPANY OPERATES. (HB)

JOURNAL CITATION: FUTURIST; 7: 4: 175-176

ACCESSION NUMBER: EJ081791

CLEARINGHOUSE ACCESSION NUMBER: SE509060

PUBLICATION DATE: JUL 73

TITLE: MEETING REFLECTS SOLAR ENERGY OPTIMISM

DESCRIPTOR: *ENERGY; *MEETINGS; *SCIENCE EQUIPMENT; *SCIENTIFIC RESEARCH; *SOLAR RADIATION; *AIR CONDITIONING; *COSTS; *ELECTRICITY; *HEATING; *INTERNATIONAL CONGRESS ON SOLAR ENERGY

ISSUE: CIJEABST

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 51: 311

ACCESSION NUMBER: EJOB2015

CLEARINGHOUSE ACCESSION NUMBER: SE509103

PUBLICATION DATE: AUG 73

TITLE: NBS FOCUSES ON PROBLEMS OF ENERGY AND INNOVATION

DESCRIPTOR: *ENERGY; *PUBLIC HEALTH; *RESEARCH PROPOSALS; *SCIENTIFIC RESEARCH; *TECHNOLOGICAL ADVANCEMENT; LABORATORY EXPERIMENTS; OPERATING EXPENSES; PERSONNEL POLICY; SOCIAL INFLUENCES

ISSUE: CIJEABST

ABSTRACT: DESCRIBES MAJOR PROGRAMS CARRIED OUT BY THE NATIONAL BUREAU OF STANDARDS TO SOLVE PROBLEMS RELATING TO ENERGY RESOURCES, TECHNOLOGICAL INNOVATION, PUBLIC HEALTH PROTECTION AND UNIT STANDARDIZATION. (CC)

JOURNAL CITATION: PHYSICS TODAY; 26: 8: 69-70

ACCESSION NUMBER: EJOB2034

CLEARINGHOUSE ACCESSION NUMBER: SE509027

PUBLICATION DATE: AUG/SEP 73

TITLE: THE FASCINATING STORY OF FOSSIL FUELS

PERSONAL AUTHOR: ASIMOV, ISAAC

DESCRIPTOR: *EARTH SCIENCES; *ENERGY; *FUEL CONSUMPTION; *FUELS; *NATURAL RESOURCES; ENVIRONMENT; SUPPLIES; TECHNOLOGY

ISSUE: CIJEABST

ABSTRACT: HOW THIS ENERGY SOURCE WAS CREATED, ITS MEANING TO HUMANITY, OUR DRASTICALLY REDUCED SUPPLY, AND WHY WE CANNOT WAIT FOR NATURE TO MAKE MORE ARE CONSIDERED. TODAY FOSSIL FUELS SUPPLY 96 PERCENT OF THE ENERGY USED BUT WE MUST FIND ALTERNATE ENERGY OPTIONS IF WE ARE TO COMBAT THE ENERGY CRISIS. (BL)

JOURNAL CITATION: NATIONAL WILDLIFE; 11: 5: 7-10

ACCESSION NUMBER: EJOB2036

CLEARINGHOUSE ACCESSION NUMBER: SE509046

PUBLICATION DATE: JUL 73

TITLE: ANIMAL...VEGETABLE...OR MINERAL?

PERSONAL AUTHOR: CAMERON, EUGENE

DESCRIPTOR: *DEPLETED RESOURCES; *ENVIRONMENTAL EDUCATION; *ECOLOGY; *NATURAL RESOURCES; *SCIENCE EDUCATION; ATTITUDES; CONSERVATION EDUCATION; ENERGY; ENVIRONMENT; RESOURCE MATERIALS

ISSUE: CIJEABST

ABSTRACT: OUTLINES THE PROBLEMS FACING THE UNITED STATES WITH MINERAL RESERVES BEING DEPLETED, AND THE CONSUMPTION OF MINERALS OUTSTRIPPING PRODUCTION. EXPRESSES CONCERN ABOUT THE DETERIORATING MINERAL POSITION AND THE IGNORANCE AND CONFUSION OF THE PUBLIC WITH RESPECT TO MINERAL PRODUCTION AND SUPPLY, ENERGY REQUIREMENTS, AND ENVIRONMENTAL CONSEQUENCES. (JR)

JOURNAL CITATION: GEOTIMES; 18: 7: 20-22

ACCESSION NUMBER: EJOB2038

CLEARINGHOUSE ACCESSION NUMBER: SE509058

PUBLICATION DATE: JUL 73

TITLE: ALASKA PIPELINE: CONGRESS DEAF TO ENVIRONMENTALISTS

PERSONAL AUTHOR: CARTER, LUTHER J.

DESCRIPTOR: *ENERGY; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *SCIENCE EDUCATION; ECOLOGY; FUELS; GOVERNMENT ROLES; RESOURCE MATERIALS; ALASKA PIPELINE

ISSUE: CIJEABST

ABSTRACT: DISCUSSES CURRENT ATTITUDES AND OPINIONS IN THE CONGRESS REGARDING THE CONSTRUCTION OF A TRANS-ALASKA OIL PIPELINE. FEARS OF AN ENERGY CRISIS APPEAR TO BE OUTWEIGHING ENVIRONMENTAL CONCERNS. (JR)

JOURNAL CITATION: SCIENCE; 181: 4097: 326

ACCESSION NUMBER: EJOB2623

CLEARINGHOUSE ACCESSION NUMBER: EA504046

PUBLICATION DATE: JUL-AUG 73

TITLE: INTRODUCTION: FACING UP TO THE ENERGY CRISIS. CEPP SPECIAL REPORT NO. 9. ENERGY CONSERVATION: A NEW CHALLENGE FOR EDUCATION

PERSONAL AUTHOR: HEGEE, JERRY C.

DESCRIPTOR: BUILDING OPERATION; *COST EFFECTIVENESS; EDUCATIONAL FACILITIES; *FACILITY PLANNING; *FUEL CONSUMPTION; FUELS; SCHOOL BUILDINGS; SCHOOL MAINTENANCE; *STUDENT TRANSPORTATION; *ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: EXAMINES THE ENERGY CRISIS AND ITS EFFECT ON SCHOOL OPERATION, FACILITIES PLANNING, AND STUDENT TRANSPORTATION. SPECIFIC RECOMMENDATIONS ARE MADE REGARDING WAYS IN WHICH THE SCHOOL PLANT AND THE SCHOOL TRANSPORTATION PROGRAM CAN CONSERVE FUEL. (DN)

JOURNAL CITATION: CEPP JOURNAL; 11: 4: 6

ACCESSION NUMBER: EJOB2624

CLEARINGHOUSE ACCESSION NUMBER: EA504047

PUBLICATION DATE: JUL-AUG 73

TITLE: FUEL SUPPLY AND SELECTION. CEPP SPECIAL REPORT NO. 9. ENERGY CONSERVATION: A NEW CHALLENGE FOR EDUCATION

PERSONAL AUTHOR: DELL'ISOLA, A. J.

DESCRIPTOR: *COST EFFECTIVENESS; EDUCATIONAL FACILITIES; FACILITY PLANNING; FACILITY PLANNING; *FUEL CONSUMPTION; *FUELS; SCHOOL DESIGN; SYSTEMS APPROACH; *ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: ILLUSTRATES HOW FUEL SELECTION IN LARGE SCHOOL SYSTEMS CAN BE BASED ON LIFE CYCLE COSTS FOR FUEL AND BUILDINGS AS A TOTAL ENERGY/COST PACKAGE. CITES AN EXAMPLE OF HOW SUCH COST DATA CAN BE USED TO INSTITUTE CHANGES IN SCHOOL DISTRICT FUEL USE. (AUTHOR/DN)

JOURNAL CITATION: CEPP JOURNAL; 11: 4: 7-8

ACCESSION NUMBER: EJOB2625

CLEARINGHOUSE ACCESSION NUMBER: EA504048

PUBLICATION DATE: JUL-AUG 73

TITLE: STUDY OF THE POTENTIAL FOR ENERGY CONSERVATION IN SCHOOLS. CEPP SPECIAL REPORT NO. 9. ENERGY CONSERVATION: A NEW CHALLENGE FOR EDUCATION

PERSONAL AUTHOR: STEPHAN, EDWARD

DESCRIPTOR: *BUILDING OPERATION; COMPARATIVE ANALYSIS; *COMPUTER ORIENTED PROGRAMS; *COST EFFECTIVENESS; *EDUCATIONAL FACILITIES; FACILITY PLANNING; FUEL CONSUMPTION; *SIMULATION; *ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: PRESENTS THE PRELIMINARY FINDINGS OF A STUDY OF TWO SCHOOLS CONDUCTED TO DETERMINE WHAT CAN AND SHOULD BE DONE TO REDUCE THE SCHOOLS' ENERGY CONSUMPTION WITHOUT AFFECTING THEIR OPERATION. THE SCHOOLS UNDER STUDY ARE A 40,033 SQUARE FOOT, NON-AIR CONDITIONED ELEMENTARY SCHOOL AND A 270,085 SQUARE FOOT, PARTLY AIR CONDITIONED HIGH SCHOOL. THE STUDY UTILIZES A COMPUTER PERFORMANCE PROGRAM TO SIMULATE THE BUILDING OPERATION UNDER EXISTING CONDITIONS AND THEN UNDER ALTERNATIVE CONDITIONS. (AUTHOR/DN)

JOURNAL CITATION: CEPP JOURNAL; 11: 4: 9-12

ACCESSION NUMBER: EJOB2626

CLEARINGHOUSE ACCESSION NUMBER: EA504049

PUBLICATION DATE: JUL-AUG 73

TITLE: EFFECTIVE SEEING IN AN ERA OF ENERGY CONSERVATION. CEPP SPECIAL REPORT NO. 9. ENERGY CONSERVATION: A NEW CHALLENGE FOR EDUCATION

PERSONAL AUTHOR: CROUCH, C. L.

DESCRIPTOR: COST EFFECTIVENESS; *FACILITY PLANNING; GLARE; ILLUMINATION LEVELS; *LIGHTING; *LIGHTING DESIGN; VISION; *VISUAL ENVIRONMENT; VISUAL PERCEPTION; *ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: DISCUSSES RESEARCH UNDERTAKEN TO DETERMINE RECOMMENDED LEVELS OF LIGHTING FOR EFFECTIVE SEEING. FACTORS CONSIDERED INCLUDE AGE, VETTING REFLECTIONS, BRIGHTNESS DIFFERENCES, GLARE, AND PLEASANTNESS. ALSO POINTS OUT SOME COMMON LIGHTING PRACTICES THAT ARE WASTEFUL AND INEFFICIENT AND SUGGESTS ALTERNATIVES. (DN)

JOURNAL CITATION: CEPP JOURNAL; 11: 4: 12-14

ACCESSION NUMBER: EJOB2627

CLEARINGHOUSE ACCESSION NUMBER: EA504050

PUBLICATION DATE: JUL-AUG 73

TITLE: DEALING WITH ENERGY CONSERVATION ALTERNATIVES. CEPP SPECIAL REPORT NO. 9. ENERGY CONSERVATION: A NEW CHALLENGE FOR EDUCATION

PERSONAL AUTHOR: STEIN, RICHARD G.

DESCRIPTOR: BUILDING DESIGN; BUILDING IMPROVEMENT; BUILDING OPERATION; *COST EFFECTIVENESS; EDUCATIONAL FACILITIES; *FACILITY PLANNING; *FUEL CONSUMPTION; SCHOOL ARCHITECTURE; *ENERGY CONSERVATION; NEW YORK CITY

ISSUE: CIJEABST

ABSTRACT: EXAMINES HOW RISING ENERGY COSTS WILL AFFECT SCHOOL PLANNING IN GENERAL AND URBAN SCHOOL PLANNING IN PARTICULAR. IT DISCUSSES THE ENERGY CRISIS, THE ENERGY CONSUMPTION BY SCHOOLS, AND THE POTENTIAL FOR ENERGY CONSERVATION IN EDUCATION. ALSO DESCRIBES A PROJECT TO BE UNDERTAKEN IN NEW YORK CITY TO DETERMINE WAYS OF CONSERVING ENERGY IN THAT CITY'S SCHOOLS. (AUTHOR/DN)

JOURNAL CITATION: CEPP JOURNAL; 11: 4: 15-16

ACCESSION NUMBER: EJ082628
 CLEARINGHOUSE ACCESSION NUMBER: EA504051
 PUBLICATION DATE: JUL-AUG 73
 TITLE: SUMMARY: A BIG CHALLENGE AHEAD FOR PLANNERS. CEFP SPECIAL REPORT NO. 9. ENERGY CONSERVATION: A NEW CHALLENGE FOR EDUCATION
 PERSONAL AUTHOR: SKELLY, ALVIN G.
 DESCRIPTOR: *BUILDING OPERATION; COST EFFECTIVENESS; EDUCATIONAL FACILITIES; *EDUCATIONAL PLANNING; *FACILITY PLANNING; *FUEL CONSUMPTION; SCHOOL DESIGN; *ENERGY CONSERVATION
 ISSUE: CIJEABST
 ABSTRACT: SUMMARIZES THREE ARTICLES ON ENERGY CONSERVATION IN THE SCHOOLS AND PRESENTS THE RECOMMENDATIONS FROM THOSE ARTICLES TO EDUCATIONAL PLANNERS. SEE EA 504 047, EA 504 048, AND EA 504 050. (DN)
 JOURNAL CITATION: CEFP JOURNAL; 11; 4; 17-18

ACCESSION NUMBER: EJ083246
 CLEARINGHOUSE ACCESSION NUMBER: SE509050
 PUBLICATION DATE: JUN 73
 TITLE: CONSERVING ENERGY WITH HEAT STORAGE WELLS
 PERSONAL AUTHOR: MEYER, CHARLES F.; TODD, DAVID K.
 DESCRIPTOR: *ENERGY; *FACILITIES; *HEAT; *STORAGE; *SYSTEMS APPROACH; ELECTRICITY; POLLUTION; THERMAL ENVIRONMENT; UTILITIES; WATER RESOURCES
 ISSUE: CIJEABST
 JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 7; 6; 512-516

ACCESSION NUMBER: EJ083248
 CLEARINGHOUSE ACCESSION NUMBER: SE509052
 PUBLICATION DATE: JUN 73
 TITLE: TRAINING SOCIAL STUDIES TEACHERS IN ENVIRONMENTAL EDUCATION
 PERSONAL AUTHOR: HARDY, CLIFFORD A.
 DESCRIPTOR: *CURRICULUM DEVELOPMENT; *ENVIRONMENTAL EDUCATION; *SOCIAL STUDIES; *TEACHER EDUCATION; *UNIT PLAN; ENERGY; INDUSTRY; MANUFACTURING; POLLUTION; POPULATION EDUCATION
 ISSUE: CIJEABST
 JOURNAL CITATION: JOURNAL OF ENVIRONMENTAL EDUCATION; 4; 4; 15-17

ACCESSION NUMBER: EJ083311
 CLEARINGHOUSE ACCESSION NUMBER: SE509179
 PUBLICATION DATE: SEP 73
 TITLE: CHALLENGES OF THE SCIENTIFIC AGE
 PERSONAL AUTHOR: RABINOWITZ, EUGENE
 DESCRIPTOR: *ENVIRONMENT; *OVERPOPULATION; *POLLUTION; *SCIENCE EDUCATION; *WORLD PROBLEM; ENERGY; ENVIRONMENTAL EDUCATION; POPULATION TRENDS; SOLAR RADIATION; WASTE DISPOSAL
 ISSUE: CIJEABST
 ABSTRACT: THE AUTHOR, WHO WAS WORKING ON THIS ARTICLE AT THE TIME OF HIS DEATH, EXPRESSES HIS VIEWS ON THE ENERGY CRISIS AND THE PROBLEMS OF ENVIRONMENTAL POLLUTION ASSOCIATED WITH IT. IN HIS ESTIMATION, BOTH PROBLEMS ARE PRODUCTS OF THE POPULATION EXPLOSION. (EDITOR/JR)
 JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 29; 7; 4-7

ACCESSION NUMBER: EJ083312
 CLEARINGHOUSE ACCESSION NUMBER: SE509180
 PUBLICATION DATE: SEP 73
 TITLE: THE CHEMICAL CENTURY
 PERSONAL AUTHOR: LAPP, RALPH E.
 DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS; *NATURAL RESOURCES; *POPULATION TRENDS; PREDICTION; RESOURCE MATERIALS; SCIENCE EDUCATION; WORLD PROBLEMS
 ISSUE: CIJEABST
 ABSTRACT: DISCUSSES PRESENT AND FUTURE PROBLEMS OF PRODUCING CLEAN ENERGY. GRAPHICALLY PRESENTS THE CHANGING PATTERNS OF FUEL USE IN THE UNITED STATES OVER THE PAST CENTURY, AND PREDICTS POPULATION GROWTH AND ENERGY SOURCES AND CONSUMPTION UP TO THE YEAR 2100 FOR THE UNITED STATES AND THE WORLD. (JR)
 JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 29; 7; 8-14

ACCESSION NUMBER: EJ083326
 CLEARINGHOUSE ACCESSION NUMBER: SE509194
 PUBLICATION DATE: APR 73
 TITLE: THE ENERGY OF PULSES
 PERSONAL AUTHOR: MAYNARD, KEITH
 DESCRIPTOR: *ENERGY; *PHYSICS; *RESOURCE MATERIALS; *SECONDARY SCHOOL SCIENCE; INSTRUCTIONAL MATERIALS; SCIENCE EDUCATION
 ISSUE: CIJEABST
 ABSTRACT: PROVIDES A CALCULATION IN ANSWER TO A STUDENT'S QUESTION RELATING TO THE ENERGY OF PULSES IN A SLINKY. (JR)
 JOURNAL CITATION: SOUTH AUSTRALIAN SCIENCE TEACHERS JOURNAL; 73; 29-30

ACCESSION NUMBER: EJ083362
 CLEARINGHOUSE ACCESSION NUMBER: SE509271
 PUBLICATION DATE: AUG 73
 TITLE: MAJOR ENERGY POLICY STEPS TAKEN
 DESCRIPTOR: *ADMINISTRATIVE AGENCIES; *ADMINISTRATIVE POLICY; *ENERGY; *FEDERAL GOVERNMENT; *ENVIRONMENT; GOVERNMENT (ADMINISTRATIVE BODY); NATURAL RESOURCES; POLICY; *OFFICE OF ENERGY R AND D POLICY (O E P)
 ISSUE: CIJEABST
 JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 51; 35; 9

ACCESSION NUMBER: EJ083418
 CLEARINGHOUSE ACCESSION NUMBER: SE509343
 PUBLICATION DATE: AUG 73
 TITLE: RADIATION SPILL AT HANFORD: THE ANATOMY OF AN ACCIDENT
 PERSONAL AUTHOR: GILLETTE, ROBERT
 DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *POLLUTION; *RADIATION; *WASTE DISPOSAL; ENVIRONMENT; ENVIRONMENTAL INFLUENCES; RADIOISOTOPES; RESOURCE MATERIALS; WASTES; *ATOMIC ENERGY COMMISSION
 ISSUE: CIJEABST
 ABSTRACT: DESCRIBES THE CIRCUMSTANCES LEADING TO A RECENT SPILL OF RADIOACTIVE WASTES AT THE ATOMIC ENERGY COMMISSION'S HANFORD RESERVATION IN WASHINGTON. ALSO BRIEFLY DISCUSSES PREVIOUS ACCIDENTAL LEAKS AND PLANS FOR SAFER STORAGE OF RADIOACTIVE WASTE MATERIALS IN THE FUTURE. (JR)
 JOURNAL CITATION: SCIENCES; 181; 4101; 728-730

ACCESSION NUMBER: EJ084477
 CLEARINGHOUSE ACCESSION NUMBER: EA504136
 PUBLICATION DATE: SEP 73
 TITLE: A REALISTIC APPROACH TO CONSERVING ENERGY
 PERSONAL AUTHOR: FUCHS, JOHN
 DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *ILLUMINATION LEVELS; *FLEXIBLE LIGHTING DESIGN; *FACILITY GUIDELINES; LIGHTING DESIGN
 ISSUE: CIJEABST
 ABSTRACT: WARNS THAT IN ANY CRISIS, THOSE WHO OVER-REACT TO FIND A SOLUTION THREATEN TO CAUSE A SECOND CRISIS. TAKES A LOOK AT LIGHTING CRITERIA, ENERGY SOURCES, AND METHODS OF CONSERVING THEM. (AUTHOR)
 JOURNAL CITATION: PROGRESSIVE ARCHITECTURE; 54; 9; 98-99

ACCESSION NUMBER: EJ084486
 CLEARINGHOUSE ACCESSION NUMBER: EA504145
 PUBLICATION DATE: OCT 73
 TITLE: HOW SCHOOLS CAN PLUG THE ENERGY DRAIN
 DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *SCHOOL MAINTENANCE; *EQUIPMENT MAINTENANCE; *GUIDELINES; MECHANICAL EQUIPMENT; PERSONNEL EVALUATION
 ISSUE: CIJEABST
 ABSTRACT: SCHOOLS COULD CONSERVE ENERGY BY FOLLOWING RECOMMENDATIONS BY EDUCATIONAL FACILITIES LABORATORIES: (1) REVIEW OPERATIONS AND MAINTENANCE PERSONNEL QUALIFICATIONS TO HANDLE MECHANICAL-ELECTRICAL EQUIPMENT, (2) ANALYZE ENERGY CONSUMPTION TO IDENTIFY WASTE SOURCES IN SCHOOLS, (3) INCORPORATE ENERGY CONSERVATION INTO ALL ARCHITECTURAL PROGRAMS FOR MODERNIZATION OR NEW CONSTRUCTION, AND (4) LIFE-CYCLE COSTING SHOULD REPLACE INITIAL COST AS THE SOLE BASIS FOR AWARDED ENERGY-CONSUMING SUBSYSTEM CONTRACTS. (AUTHOR)
 JOURNAL CITATION: NATION'S SCHOOLS; 92; 4; 10-11

ACCESSION NUMBER: EJ084491
CLEARINGHOUSE ACCESSION NUMBER: EAS04150
PUBLICATION DATE: OCT 73
TITLE: THE ENERGY WISERS: PART ONE
DESCRIPTOR: *CONSERVATION (CONCEPT); *ENERGY; *LIGHTING
DESIGN; *MAINTENANCE; *LIGHTING; THERMAL ENVIRONMENT;
GUIDES; COST EFFECTIVENESS
ISSUE: CIJEABST

ABSTRACT: SHOWS HOW DUCTED AIR SYSTEMS CAN BE DESIGNED TO PROVIDE A DIRECT MEANS OF CONTROLLING AND REDISTRIBUTING THE HEAT GENERATED BY LIGHTING FIXTURES. SUGGESTS WAYS TO ACHIEVE SIGNIFICANT REDUCTIONS IN ENERGY USE AND OPERATING EXPENSE. (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS; 7-8

ACCESSION NUMBER: EJ085166
CLEARINGHOUSE ACCESSION NUMBER: SE509510
PUBLICATION DATE: OCT 73
TITLE: THERMONUCLEAR FUSION: AN ENERGY SOURCE FOR THE FUTURE
PERSONAL AUTHOR: DRUMMOND, WILLIAM E.

DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; *RESOURCE MATERIALS;
*SCIENTIFIC RESEARCH; ENVIRONMENTAL EDUCATION; PHYSICAL
SCIENCES; PHYSICS; SCIENCE EDUCATION; *THERMONUCLEAR FUSION;
TOKAMAKS

ISSUE: CIJEABST

ABSTRACT: DISCUSSES CURRENT RESEARCH IN THERMONUCLEAR FUSION WITH PARTICULAR EMPHASIS ON THE PROBLEM OF CONFINING HOT PLASMA. RECENT EXPERIMENTS INDICATE THAT MAGNETIC BOTTLES CALLED TOKAMAKS MAY ACHIEVE THE NECESSARY CONFINEMENT TYPES, AND THIS BREAK-THROUGH HAS GIVEN RENEWED OPTIMISM TO THE FEASIBILITY OF COMMERCIAL FUSION POWER BY THE TURN OF THE CENTURY. (JRI)

JOURNAL CITATION: JOURNAL OF COLLEGE SCIENCE TEACHING; 3;
1: 18-21

ACCESSION NUMBER: EJ086713
CLEARINGHOUSE ACCESSION NUMBER: SE509443
PUBLICATION DATE: SEP 73
TITLE: A FIVE DOLLAR PHYSICS EXPERIMENT
PERSONAL AUTHOR: JACOBSON, DAVID

DESCRIPTOR: *PHYSICS; *SCIENCE EXPERIMENTS; *SCIENCE
EQUIPMENT; *SECONDARY SCHOOL SCIENCE; *SOLAR RADIATION;
ENERGY; LABORATORY EXPERIMENTS; RESOURCE MATERIALS; SCIENCE
ACTIVITIES; SCIENCE EDUCATION

ISSUE: CIJEABST

ABSTRACT: DESCRIBES THE CONSTRUCTION OF A SIMPLE APPARATUS CAPABLE OF CONVERTING SOLAR ENERGY INTO MECHANICAL ENERGY. CONSTRUCTION OF THE "ENGINE" IS INEXPENSIVE, AND SHOULD STIMULATE STUDENT INTEREST IN THE IDEA OF PRODUCING POWER DIRECTLY FROM THE SUN. (JRI)

JOURNAL CITATION: SCIENCE ACTIVITIES; 10; 1: 17,45-46

ACCESSION NUMBER: EJ086734
CLEARINGHOUSE ACCESSION NUMBER: SE509487
PUBLICATION DATE: SEP 73
TITLE: GENERAL RELATIVITY AND ENERGY
PERSONAL AUTHOR: JACKSON, A. T.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *PHYSICS;
*RELATIVITY; *SCIENCE EDUCATION; *SCIENTIFIC CONCEPTS;
ENERGY; SCIENCE HISTORY; SCIENTIFIC PRINCIPLES; THEORIES

ISSUE: CIJEABST

ABSTRACT: REVIEWS THEORETICAL AND EXPERIMENTAL FUNDAMENTALS OF EINSTEIN'S THEORY OF GENERAL RELATIVITY. INDICATES THAT RECENT DEVELOPMENT OF THE THEORY OF THE CONTINUALLY EXPANDING UNIVERSE MAY LEAD TO REVISION OF THE SPACE-TIME CONTINUUM OF THE FINITE AND UNBOUNDED UNIVERSE. (CC)

JOURNAL CITATION: PHYSICS EDUCATION; 8; 6: 411-414

ACCESSION NUMBER: EJ086823
CLEARINGHOUSE ACCESSION NUMBER: SE509641
PUBLICATION DATE: OCT 73
TITLE: THE SECOND DISCOVERY OF AMERICA
PERSONAL AUTHOR: LEWIS, RICHARD S.

DESCRIPTOR: *CONFERENCE REPORTS; *NATURAL RESOURCES;
*SCIENCE; *WORLD PROBLEMS; EARTH SCIENCES; ENERGY;
ENVIRONMENT; FOOD; POPULATION TRENDS; SCIENCE AND MAN IN
THE AMERICAS

ISSUE: CIJEABST

ABSTRACT: SUMMARIZES THE MAJOR AREAS OF CONCERN CONSIDERED AT THE FIRST INTERNATIONAL CONFERENCE ON SCIENCE AND MAN IN THE AMERICAS. TOPICS EMPHASIZED INCLUDE: NATURAL RESOURCES

OF THE OCEANS, MOVEMENTS OF THE EARTH'S CRUST, VOLCANOLOGY, ENERGY RESOURCES, AND FOOD PRODUCTION AS IT RELATES TO THE WORLD POPULATION PROBLEM. (JRI)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 29; 8:
2,28-31

ACCESSION NUMBER: EJ086827
CLEARINGHOUSE ACCESSION NUMBER: SE509645
PUBLICATION DATE: OCT 73
TITLE: THE ENERGY JOYRIDE IS OVER
PERSONAL AUTHOR: FREEMAN, S. DAVID

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS;
*NATURAL RESOURCES; ECONOMIC FACTORS; ENVIRONMENT; FUTURE
OF SOCIETY; *ENERGY POLICY PROJECT (FORD FOUNDATION);
ENERGY CONSUMPTION

ISSUE: CIJEABST

ABSTRACT: OUTLINES BRIEFLY THE ENERGY POLICY AREAS BEING CONSIDERED AND RESEARCHED BY THE ENERGY POLICY PROJECT AT THE FORD FOUNDATION AND DISCUSSES SOME OF THE OPTIONS AVAILABLE TO THE UNITED STATES TO SATISFY ENERGY REQUIREMENTS IN THE FUTURE. (JRI)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 29; 8:
39-40

ACCESSION NUMBER: EJ086828
CLEARINGHOUSE ACCESSION NUMBER: SE509646
PUBLICATION DATE: OCT 73
TITLE: NEW DIRECTIONS FOR SOLAR ENERGY
PERSONAL AUTHOR: GLASER, PETER E.; BURKE, JAMES C.

DESCRIPTOR: *CLIMATE CONTROLS; *ENERGY; *ENVIRONMENTAL
EDUCATION; *SOLAR RADIATION; *TECHNOLOGICAL ADVANCEMENTS;
CLIMATIC FACTORS; DAYLIGHT; ECONOMIC FACTORS; HEAT; SOCIAL
FACTORS

ISSUE: CIJEABST

ABSTRACT: DESCRIBES NEW APPLICATIONS BEING FOUND FOR SOLAR ENERGY AS A RESULT OF TECHNICAL ADVANCES AND A VARIETY OF ECONOMIC AND SOCIAL FORCES. DISCUSSES THE BASIC REQUIREMENTS FOR A SOLAR CLIMATE CONTROL SYSTEM AND OUTLINES FACTORS THAT SHOULD STIMULATE GREATER USE OF SOLAR ENERGY IN THE NEAR FUTURE. (JRI)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 29; 8:
40-42

ACCESSION NUMBER: EJ086829
CLEARINGHOUSE ACCESSION NUMBER: SE509647
PUBLICATION DATE: OCT 73
TITLE: PADRE SOL AND CHEMICAL FUEL PRODUCTION
PERSONAL AUTHOR: AXTHANN, ROBERT C.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS;
*SOLAR RADIATION; *TECHNOLOGICAL ADVANCEMENTS; CHEMICAL
REACTIONS; ECOLOGICAL FACTORS; HEAT; WASTES; HYDROGEN
PRODUCTION

ISSUE: CIJEABST

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 29; 8:
42-44

ACCESSION NUMBER: EJ086872
CLEARINGHOUSE ACCESSION NUMBER: SE509746
PUBLICATION DATE: OCT 73
TITLE: WHENCE POTENTIAL ENERGY
PERSONAL AUTHOR: FILLMORE, KEITH

DESCRIPTOR: *ENERGY; *RESOURCE MATERIALS; *SCIENCE
MATERIALS; *SCIENTIFIC CONCEPTS; *TEACHING PROCEDURES;
COLLEGE SCIENCE; INSTRUCTION; PHYSICS; SCIENCE EDUCATION

ISSUE: CIJEABST

JOURNAL CITATION: PHYSICS TEACHER; 11; 7: 431-432

ACCESSION NUMBER: EJ086874
CLEARINGHOUSE ACCESSION NUMBER: SE509760
PUBLICATION DATE: OCT 73
TITLE: ENERGY CRUNCH IS STIMULANT FOR COAL RESEARCH

DESCRIPTOR: *CHEMICAL INDUSTRY; *DEPLETED RESOURCES; *FUEL
CONSUMPTION; *INTERNATIONAL ORGANIZATIONS; *SCIENTIFIC
RESEARCH; CONFERENCE REPORTS; ENERGY; ENGINEERING EDUCATION;
FUELS; NATURAL RESOURCES

ISSUE: CIJEABST

ABSTRACT: PRESENTS VIEWS OF THE FIRST INTERNATIONAL COAL RESEARCH CONFERENCE, INVOLVING PROBLEMS FACING RECONVERSION TO A COAL-BASED ENERGY ECONOMY, ORGANIZATION AND FUNDING OF COAL RESEARCH UNITS, DEVELOPMENT OF NEW TECHNIQUES FOR MINING AND USING COAL, AND TRANSPORTATION OF COAL PRODUCTS

TO USERS. (CC)

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS: 91: 44: 21-22

ACCESSION NUMBER: EJ086917

CLEARINGHOUSE ACCESSION NUMBER: SE509870

PUBLICATION DATE: NOV 73

TITLE: ENERGY COST AND ANIMAL SIZE

PERSONAL AUTHOR: YORKE, ELLEN D.

DESCRIPTOR: *ANIMAL SCIENCE; *ENERGY; *PHYSICS; *RESOURCE MATERIALS; *SCIENCE MATERIALS; COLLEGE SCIENCE; INSTRUCTIONAL MATERIALS; SCIENCE EDUCATION; THEORIES

ISSUE: CIJEABST

JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS: 41: 11: 1286-1287

ACCESSION NUMBER: EJ087017

CLEARINGHOUSE ACCESSION NUMBER: SP502158

PUBLICATION DATE: SEP 73

TITLE: ERG--ENERGY RESOURCES GAME: SIMULATION GAMING OF REGIONAL ENERGY MANAGEMENT

PERSONAL AUTHOR: WOLF, LYLE P.; LAESSIG, ROBERT E.

DESCRIPTOR: *GAMES; *GAME THEORY; *NATURAL RESOURCES; *SIMULATION; *ENERGY; ENVIRONMENTAL EDUCATION; MANAGEMENT

ISSUE: CIJEABST

ABSTRACT: ERG--THE ENERGY RESOURCES GAME--IS A COMPUTER BASED GAME WHICH EXPLORES QUESTIONS REGARDING REGIONAL ENERGY SUPPLY AND DEMAND, SUCH AS POPULATION AND ECONOMIC GROWTH GOALS, ACCEPTABLE LEVELS OF DEPENDENCE ON IMPORTED ENERGY, AND ACCEPTABLE LEVELS OF ENVIRONMENTAL IMPACT. (JA)

JOURNAL CITATION: SIMULATION AND GAMES: 4: 3: 315-23

ACCESSION NUMBER: EJ087709

CLEARINGHOUSE ACCESSION NUMBER: EA504303

PUBLICATION DATE: NOV 73

TITLE: MODERN ENERGY SYSTEMS FOR EXISTING SCHOOLS

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *EDUCATIONAL FACILITIES; *ECONOMICS; SCHOOL IMPROVEMENT; AIR CONDITIONING EQUIPMENT; HEATING; LIGHTING DESIGN; OPERATING EXPENSES

ISSUE: CIJEABST

ABSTRACT: THIS EXCERPT FROM A REPORT (SEE RTE EA 005 433) ALERTS SCHOOL ADMINISTRATORS AND OFFICIALS TO THE MEANS FOR EFFECTING ECONOMIES IN EXISTING AND FUTURE SCHOOL BUILDINGS AND INSTRUCTS THEM IN CRITERIA FOR ASSESSING PROPOSED HEATING/COOLING/LIGHTING AND OTHER ENERGY CONSUMING SYSTEMS. (AUTHOR/RLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 46: 3: 38-46

ACCESSION NUMBER: EJ087714

CLEARINGHOUSE ACCESSION NUMBER: EA504308

PUBLICATION DATE: NOV 73

TITLE: THE ENERGY MISERS, PART TWO. ELECTRIC SPACE CONDITIONING CONCEPTS

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *HEATING; *MECHANICAL EQUIPMENT; *CONTROLLED ENVIRONMENT

ISSUE: CIJEABST

ABSTRACT: EXPLAINS VARIOUS HEAT TRANSFER TECHNIQUES AND DEVICES THAT PERMIT THE AUTOMATIC AND ECONOMIC RECOVERY AND REUSE OF HEAT GENERATED BY LIGHTS AND OCCUPANTS OF BUILDINGS. (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS: 8-9

ACCESSION NUMBER: EJ087779

CLEARINGHOUSE ACCESSION NUMBER: EA504374

PUBLICATION DATE: DEC 73

TITLE: THE ENERGY MISERS, PART THREE: CONSERVATION IN MODERNIZATION

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *OPERATING EXPENSES; *GUIDES; *SCHOOL MAINTENANCE; HEATING; ILLUMINATION LEVELS

ISSUE: CIJEABST

ABSTRACT: DEALS WITH THE POTENTIAL FOR SAVING ENERGY AND MINIMIZING OPERATING COSTS WITHIN EXISTING SCHOOL FACILITIES AND IN ATTEMPTS TO MODERNIZE AND EXPAND. (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS: 6-7

ACCESSION NUMBER: EJ088293

CLEARINGHOUSE ACCESSION NUMBER: SE509704

PUBLICATION DATE: OCT 73

TITLE: THE URGENT NEED FOR ENERGY CONSERVATION

PERSONAL AUTHOR: ABELSON, PHILIP H.

DESCRIPTOR: *CONSERVATION EDUCATION; *ENERGY; *ENVIRONMENTAL EDUCATION; *FUEL CONSUMPTION; EDITORIALS; FUELS; GOVERNMENT ROLE; NATURAL RESOURCES; *ENERGY CRISIS

ISSUE: CIJEABST

ABSTRACT: DISCUSSES THE SERIOUS NATURE OF THE ENERGY CRISIS AND THE DEPENDENCE OF THE UNITED STATES ECONOMY ON IMPORTED HYDROCARBONS. URGES IMMEDIATE ACTION TO ALLEVIATE THE SITUATION BY INCREASING DOMESTIC PRODUCTION OF OIL, SUBSTITUTING COAL FOR OIL, AND BY CONSERVATION, ESPECIALLY IN THE USE OF AUTOMOBILE FUEL. (JR)

JOURNAL CITATION: SCIENCE: 182: 4110: 339

ACCESSION NUMBER: EJ088334

CLEARINGHOUSE ACCESSION NUMBER: SE509771

PUBLICATION DATE: NOV 73

TITLE: TRANSPORTATION ENERGY USE AND CONSERVATION POTENTIAL

PERSONAL AUTHOR: HIRST, ERIC

DESCRIPTOR: *DEPLETED RESOURCES; *ENERGY; *PUBLIC EDUCATION; *TRAFFIC PATTERNS; NATURAL RESOURCES; PETROLEUM INDUSTRY; TRANSPORTATION; TRAVEL; ENERGY REQUIREMENTS

ISSUE: CIJEABST

ABSTRACT: ANALYZES TRANSPORTATION ENERGY CONSUMPTION AND ENERGY INTENSIVENESS FOR INTER-CITY FREIGHT AND PASSENGER TRAFFIC AND URBAN PASSENGER TRAFFIC WITH THE DEFINITION OF ENERGY INTENSIVENESS AS BTU PER TON-MILE OR PER PASSENGER-MILE. INDICATES THAT PUBLIC EDUCATION IS ONE OF THREE WAYS TO ACHIEVE THE GOALS OF ENERGY CONSERVATION. (CC)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS: 29: 9: 36-42

ACCESSION NUMBER: EJ088335

CLEARINGHOUSE ACCESSION NUMBER: SE509772

PUBLICATION DATE: NOV 73

TITLE: ENERGY PROBLEMS AND ENVIRONMENTAL CONCERN

PERSONAL AUTHOR: TRAIN, RUSSELL E.

DESCRIPTOR: *CONSUMER EDUCATION; *DEPLETED RESOURCES; *ENVIRONMENTAL CRITERIA; *ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES; ENERGY; LEGISLATION; PETROLEUM INDUSTRY; ENERGY REQUIREMENTS

ISSUE: CIJEABST

ABSTRACT: DISCUSSES PROBLEMS ENCOUNTERED IN ENERGY EXTRACTION AND CONSUMPTION, INVOLVING NUCLEAR POWER PLANT CONSTRUCTION, ENVIRONMENTAL CONSEQUENCES OF ENERGY SYSTEMS, AND ENERGY CONSERVATION ETHICS. INDICATES THAT THE INCREASING CONCERN OVER ENVIRONMENTAL QUALITY IS NOT THE TRUE CAUSE OF PRESENT ENERGY PROBLEMS. (CC)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS: 29: 9: 43-47

ACCESSION NUMBER: EJ088352

CLEARINGHOUSE ACCESSION NUMBER: SE509789

PUBLICATION DATE: NOV 73

TITLE: FOOD PRODUCTION AND THE ENERGY CRISIS

PERSONAL AUTHOR: PINTEL, DAVID; AND OTHERS

DESCRIPTOR: *AGRICULTURAL PRODUCTION; *CORN (FIELD CROP); *ENERGY; *ENVIRONMENTAL EDUCATION; *FOOD; AGRICULTURE; FIELD CROPS; SCIENCE EDUCATION; TECHNOLOGY

ISSUE: CIJEABST

ABSTRACT: ANALYZES THE ENERGY INPUTS IN UNITED STATES AND GREEN REVOLUTION CROP PRODUCTION TECHNIQUES, USING CORN AS A TYPICAL CROP. EXAMINES THE ENERGY NEEDS FOR A WORLD FOOD SUPPLY THAT DEPENDS ON MODERN ENERGY INTENSIVE AGRICULTURE, AND CONSIDERS ALTERNATIVES IN CROP PRODUCTION TECHNOLOGY WHICH MIGHT REDUCE ENERGY INPUTS IN FOOD PRODUCTION. (CC)

JOURNAL CITATION: SCIENCE: 182: 4111: 443-449

ACCESSION NUMBER: EJ088383

CLEARINGHOUSE ACCESSION NUMBER: SE509880

PUBLICATION DATE: NOV 73

TITLE: EDITORIAL: SPEAKING - FUSION POWER: REASONS FOR HIGHER PRIORITY

PERSONAL AUTHOR: LIPPINCOTT, WILLIAM T.

DESCRIPTOR: *DEPLETED RESOURCES; *ENERGY; *FUELS; *LASERS; *RESEARCH NEEDS; CHEMISTRY; EDITORIALS; ENIGMS; NATURAL RESOURCES; SCIENTIFIC RESEARCH; ENERGY REQUIREMENTS

ISSUE: CIJEABST

ABSTRACT: DISCUSSES CURRENT RESEARCH TRENDS IN THE USE OF LASER-FUSION TECHNOLOGY IN COMBUSTION CHAMBERS TO ERADICATE ENERGY SHORTAGES. INDICATES THAT FUSION POWER COULD BE MADE AVAILABLE AT A RELATIVELY LOW EXPENSE. (CC)

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 50; 11; 729

ACCESSION NUMBER: EJ088411

CLEARINGHOUSE ACCESSION NUMBER: SE509908

PUBLICATION DATE: NOV 73

TITLE: COAL IS KEY TO U.S. ENERGY FUTURE

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *NEEDS; *REPORTS; *NATURAL RESOURCES; *PREDICTION; *SCIENCE EDUCATION; *TECHNOLOGICAL ADVANCEMENT; *COAL

ISSUE: CIJEABST

ABSTRACT: DISCUSSES A REPORT OF THE NATIONAL PETROLEUM COUNCIL ON THE AVAILABILITY OF COAL AND THE INCREASINGLY IMPORTANT ROLE THAT COAL WILL PLAY IN MEETING THE FUTURE ENERGY NEEDS OF THE UNITED STATES. (JR)

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 51; 46; 11

ACCESSION NUMBER: EJ088419

CLEARINGHOUSE ACCESSION NUMBER: SE509921

PUBLICATION DATE: OCT 73

TITLE: ELEMENTS OF THE ENERGY BUDGET OF THE SILK MOTH (BOMBYX MORI) DURING THE DEVELOPMENTAL CYCLE

PERSONAL AUTHOR: DAVIS, M. J.

DESCRIPTOR: *BIOLOGICAL SCIENCES; *ENERGY; *ENTOMOLOGY; *SCIENTIFIC RESEARCH; *LABORATORY PROCEDURES; *RESEARCH; *SCIENCE EDUCATION; *RESEARCH REPORTS

ISSUE: CIJEABST

ABSTRACT: DESCRIBES THE EXPERIMENTAL TECHNIQUES AND DISCUSSES THE RESULTS OF A STUDY OF ENERGY FLOW AT THE SPECIES LEVEL, USING THE SILK MOTH BOMBYX MORI. (JR)

JOURNAL CITATION: JOURNAL OF BIOLOGICAL EDUCATION; 7; 5; 3-13

ACCESSION NUMBER: EJ088463

CLEARINGHOUSE ACCESSION NUMBER: SE509967

PUBLICATION DATE: NOV 73

TITLE: ENERGY INDEPENDENCE

PERSONAL AUTHOR: ABELSON, PHILIP H.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUTURES (OF SOCIETY); *NATURAL RESOURCES; *EDITORIALS; *ENVIRONMENT; *POLICY; *SCIENCE EDUCATION; *PROJECT INDEPENDENCE

ISSUE: CIJEABST

ABSTRACT: DISCUSSES PRESIDENT NIXON'S PROPOSED NATIONAL ENDEAVOR FOR ENERGY SELF-SUFFICIENCY IN THE UNITED STATES BY 1980, TO BE KNOWN AS PROJECT INDEPENDENCE. EXAMINES SOME OF THE FACTORS THAT WILL BE INVOLVED IN ATTEMPTING TO ATTAIN ENERGY INDEPENDENCE. (JR)

JOURNAL CITATION: SCIENCE; 182; 4114; 779

ACCESSION NUMBER: EJ088518

CLEARINGHOUSE ACCESSION NUMBER: SE510023

PUBLICATION DATE: NOV 73

TITLE: QUICKER STARTUP OF NUCLEAR PLANTS SOUGHT

DESCRIPTOR: *ADMINISTRATIVE PROBLEMS; *CONSTRUCTION (PROCESS); *FACILITY REQUIREMENTS; *GOVERNMENT ROLE; *LEGISLATION; *CONSTRUCTION NEEDS; *DEPLETED RESOURCES; *ENERGY; *INDUSTRY; *NUCLEAR POWER PLANTS

ISSUE: CIJEABST

ABSTRACT: DISCUSSES VARIOUS MEASURES TAKEN BY THE ATOMIC ENERGY COMMISSION TO CUT DOWN A NUCLEAR POWER PLANT'S LEAD TIME, INCLUDING CHANGES IN LICENSING PROCESSES. (CC)

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 51; 48; 7-8

ACCESSION NUMBER: EJ088523

CLEARINGHOUSE ACCESSION NUMBER: SE510028

PUBLICATION DATE: NOV 73

TITLE: ENERGY R & D: UNDER PRESSURE, A NATIONAL POLICY TAKES FORM

PERSONAL AUTHOR: GILLETTE, ROBERT

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FEDERAL GOVERNMENT; *POLICY; *PROGRAM BUDGETING; *ENVIRONMENT; *RESEARCH; *RESOURCE MATERIALS; *SCIENCE EDUCATION; *PROJECT INDEPENDENCE

ISSUE: CIJEABST

ABSTRACT: OUTLINES THE 5 YEAR, 10 BILLION DOLLAR ENERGY

RESEARCH AND DEVELOPMENT PLAN PROPOSED BY THE NEWLY CONSTITUTED ENERGY R & ADVISORY COUNCIL OF THE WHITE HOUSE ENERGY POLICY OFFICE. THE FORMULATION OF A NATIONAL ENERGY POLICY IS IN RESPONSE TO PRESIDENT NIXON'S PROPOSED PROJECT INDEPENDENCE. (JR)

JOURNAL CITATION: SCIENCE; 182; 4115; 898-900

ACCESSION NUMBER: EJ088550

CLEARINGHOUSE ACCESSION NUMBER: SE510099

PUBLICATION DATE: DEC 73

TITLE: ENERGY CRISES IN PERSPECTIVE

PERSONAL AUTHOR: FISHER, JOHN C.

DESCRIPTOR: *ENERGY; *FUEL CONSUMPTION; *FUTURES (OF SOCIETY); *TECHNOLOGICAL ADVANCEMENT; *TREND ANALYSIS; *DEPLETED RESOURCES; *FUELS; *NATURAL RESOURCES; *PETROLEUM INDUSTRY; *ENERGY REQUIREMENTS

ISSUE: CIJEABST

ABSTRACT: DISCUSSES SOME LONG-RANGE ASPECTS OF ENERGY RESOURCES AND CONSUMPTION, INCLUDING THE HISTORY OF CURRENT ENERGY CRISIS, RESOURCE AND RESERVE ESTIMATES, AND FUTURE OF THE ENERGY INDUSTRY. INDICATES THAT THE UNITED STATES OF AMERICA HAS ENOUGH FOSSIL AND NUCLEAR FUEL TO LAST, RESPECTIVELY, FOR 500 YEARS AND A MILLION YEARS. (CC)

JOURNAL CITATION: PHYSICS TODAY; 26; 12; 40-51

ACCESSION NUMBER: EJ088582

CLEARINGHOUSE ACCESSION NUMBER: S0502284

PUBLICATION DATE: AUT 73

TITLE: INQUIRY ACTIVITIES FOR THE ENERGY CRISIS

PERSONAL AUTHOR: CAMPBELL, LLOYD P.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *LEARNING ACTIVITIES; *RESOURCE MATERIALS; *UNITS OF STUDY (SUBJECT FIELDS); *INQUIRY TRAINING; *CURRENT EVENTS; *SOCIAL STUDIES

ISSUE: CIJEABST

ABSTRACT: A UNIT TO BE USED AS A MEANS OF ASSISTING STUDENTS IN FORMALIZING THEIR POSITION ON THE FUNDAMENTAL ISSUES WITHIN THE ENERGY CRISIS. INCLUDES OBJECTIVES, LEARNING ACTIVITIES, AND A RESOURCE LIST. (AUTHOR/KH)

JOURNAL CITATION: SOCIAL SCIENCE RECORD; 11; 1; 26-30

ACCESSION NUMBER: EJ088601

CLEARINGHOUSE ACCESSION NUMBER: S0502304

PUBLICATION DATE: SEP 73

TITLE: THE ENERGY QUESTION: PROBLEMS AND ALTERNATIVES

PERSONAL AUTHOR: NESBITT, WILLIAM A.

DESCRIPTOR: *SOCIAL STUDIES; *ENVIRONMENTAL EDUCATION; *ENERGY; *RESOURCES; *INQUIRY TRAINING; *GUIDELINES; *TABLES (DATA); *INTERMEDIATE GRADES; *SECONDARY GRADES

ISSUE: CIJEABST

ABSTRACT: SOME IDEAS FOR TEACHING ABOUT THE ENERGY CRISIS ARE DEVELOPED IN THIS ARTICLE. THE AUTHOR SUGGESTS RELATED INQUIRY QUESTIONS AND SUGGESTS TECHNIQUES FOR CLARIFICATION OF INTERRELATIONSHIPS. GRAPHS AND DATA RELATED TO THE ENERGY CRISIS ARE INCLUDED. (SM)

JOURNAL CITATION: INTERCOM; 73; 12-16

ACCESSION NUMBER: EJ089409

CLEARINGHOUSE ACCESSION NUMBER: EA504426

PUBLICATION DATE: JAN 74

TITLE: IDEAS TO SAVE ELECTRICITY

PERSONAL AUTHOR: GARDNER, JOHN C.

DESCRIPTOR: *CONSERVATION (CONCEPT); *ELECTRICITY; *SCHOOL MAINTENANCE; *PURCHASING; *ENERGY; *STANDARDS; *EQUIPMENT MAINTENANCE; *ELEMENTARY SCHOOLS; *SECONDARY SCHOOLS

ISSUE: CIJEABST

ABSTRACT: SIGNIFICANT ENERGY SAVINGS CAN BE EFFECTED THROUGH STOPPING OBVIOUS WASTE OF WATER, ELECTRICITY, AND HEAT; PURCHASING EQUIPMENT WITH THE CORRECT VOLTAGE AND HORSEPOWER; EQUIPMENT MAINTENANCE; AND REDESIGNING OR REPLACING OBSOLETE OR INEFFICIENT EQUIPMENT. (AUTHOR/MF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46; 5; 11,14

ACCESSION NUMBER: EJ089411

CLEARINGHOUSE ACCESSION NUMBER: EA504428

PUBLICATION DATE: JAN 74

TITLE: DESIGN NEW BUILDINGS TO SAVE ENERGY -- AND MONEY

PERSONAL AUTHOR: RITTELMANN, RICHARD

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *SCHOOL DESIGN; *ENGINEERING TECHNOLOGY; *LIGHTING; *VENTILATION;

STANDARDS; COST EFFECTIVENESS; FUEL CONSUMPTION

ISSUE: CIJEABST

ABSTRACT: BUILDINGS SHOULD BE DESIGNED SO THAT ENERGY SYSTEMS FUNCTION WITH MAXIMUM EFFICIENCY. RE-EVALUATION OF STANDARDS FOR VENTILATION AND LIGHTING IS RECOMMENDED. HEAT RECOVERY TECHNIQUES AND TOPOGRAPHY CAN REDUCE HEATING LOADS. (INF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46; 5: 24-25

ACCESSION NUMBER: EJ089412

CLEARINGHOUSE ACCESSION NUMBER: EA504429

PUBLICATION DATE: JAN 74

TITLE: HOW ONE DISTRICT IS MEETING THE ENERGY CRISIS

PERSONAL AUTHOR: ABRAHSON, PAUL

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *COST EFFECTIVENESS; *FUEL CONSUMPTION; SCHOOL MAINTENANCE; FUELS; HIGH SCHOOLS; MIDDLE SCHOOLS; PROBLEM SOLVING; *FUEL SHORTAGES

ISSUE: CIJEABST

ABSTRACT: IN MANHATTAN, NEW YORK, A WHOLE SERIES OF "COMMON SENSE" LITTLE PROCEDURES ARE BEING PUT INTO EFFECT TO CUT DOWN ON FUEL CONSUMPTION. THE PROGRAM, ORIGINALLY STARTED AS A DOLLAR SAVER, SHOULD HELP ALLEVIATE THE FUEL CRUNCH. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46; 5: 26-28

ACCESSION NUMBER: EJ089413

CLEARINGHOUSE ACCESSION NUMBER: EA504430

PUBLICATION DATE: JAN 74

TITLE: 25 PERCENT ELECTRIC POWER REDUCTIONS ARE POSSIBLE

PERSONAL AUTHOR: RIETZ, RICHARD C.

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *ELECTRICITY; *SCHOOL MAINTENANCE; *EQUIPMENT MAINTENANCE; HIGH SCHOOLS; FUEL CONSUMPTION

ISSUE: CIJEABST

ABSTRACT: TWENTY-SEVEN EASY STEPS THAT PAID OFF FOR A HIGH SCHOOL IN OAK PARK, ILLINOIS. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46; 5: 31-32

ACCESSION NUMBER: EJ089419

CLEARINGHOUSE ACCESSION NUMBER: EA504436

PUBLICATION DATE: JAN 74

TITLE: COPING WITH THE ENERGY CRISIS: FOUR EXPERTS TALK IT OVER

PERSONAL AUTHOR: DAY, C. WILLIAM; AND OTHERS

DESCRIPTOR: *BUILDING OPERATION; COST EFFECTIVENESS; *EFFICIENCY; *ENERGY; FACILITY PLANNING; *FUEL CONSUMPTION; HEATING; OPERATING EXPENSES; *SCHOOL MAINTENANCE

ISSUE: CIJEABST

ABSTRACT: A DISCUSSION BY AN EDUCATOR, AN ENERGY CONSULTANT, AN ARCHITECT, AND A SUPERINTENDENT OF FACILITIES PLANNING ON HOW SCHOOLS CAN REFORM MAINTENANCE AND OPERATIONS PROCEDURES TOWARDS EFFICIENT FUEL USE. (AUTHOR/CH)

JOURNAL CITATION: NATION'S SCHOOLS; 93; 1; 33-38

ACCESSION NUMBER: EJ089420

CLEARINGHOUSE ACCESSION NUMBER: EA504437

PUBLICATION DATE: JAN 74

TITLE: WHAT SCHOOLS ARE DOING ABOUT ECONOMIZING ON ENERGY

DESCRIPTOR: *BUILDING DESIGN; *CASE STUDIES; *BUILDING CONVERSION; *ENERGY; *EFFICIENCY; LIGHTING DESIGN; SCHOOL MAINTENANCE; BUILDING OPERATION; COST EFFECTIVENESS; HEAT RECOVERY SYSTEMS

ISSUE: CIJEABST

ABSTRACT: SIX CASE HISTORIES THAT TELL ABOUT THE BENEFITS OF HEAT RECOVERY SYSTEMS, INCENTIVE PROGRAMS, LIFE-CYCLE COSTING, ZONE LIGHTING, COMPUTER PROFILES, AND ENERGY-ORIENTED REMODELING. (AUTHOR)

JOURNAL CITATION: NATION'S SCHOOLS; 93; 1; 39-44

ACCESSION NUMBER: EJ089421

CLEARINGHOUSE ACCESSION NUMBER: EA504438

PUBLICATION DATE: JAN 74

TITLE: SEVENTY-SEVEN WAYS TO START SAVING ENERGY

DESCRIPTOR: *COST EFFECTIVENESS; *ENERGY; *EFFICIENCY; *BUILDING OPERATION; *ADMINISTRATOR GUIDES; HEATING;

LIGHTING; STUDENT TRANSPORTATION; AIR CONDITIONING

ISSUE: CIJEABST

JOURNAL CITATION: NATION'S SCHOOLS; 93; 1; 44-47

ACCESSION NUMBER: EJ089422

CLEARINGHOUSE ACCESSION NUMBER: EA504439

PUBLICATION DATE: JAN 74

TITLE: NEWS AND VIEWS ON LIGHTING, RESEARCH AND DESIGN

DESCRIPTOR: *ANNOTATED BIBLIOGRAPHIES; *ENERGY; *COST EFFECTIVENESS; *LIGHTING DESIGN; *BUILDING OPERATION; EFFICIENCY; LIGHTING; RESEARCH; BUILDING DESIGN

ISSUE: CIJEABST

ABSTRACT: CONTAINS FOUR REPORTS ON THE LATEST DEVELOPMENTS IN LIGHTING, RESEARCH AND DESIGN, AND A 10-ITEM ANNOTATED ENERGY BIBLIOGRAPHY. (AUTHOR)

JOURNAL CITATION: NATION'S SCHOOLS; 93; 1; 48-52

ACCESSION NUMBER: EJ089423

CLEARINGHOUSE ACCESSION NUMBER: EA504440

PUBLICATION DATE: JAN 74

TITLE: IF WORSE COMES TO WORST

DESCRIPTOR: *SCHOOL MAINTENANCE; *EQUIPMENT MAINTENANCE; *EMERGENCY PROGRAMS; *ENERGY; *ADMINISTRATOR GUIDES; BUILDING OPERATION

ISSUE: CIJEABST

ABSTRACT: GIVES INSTRUCTIONS ON MINIMIZING DAMAGE TO SCHOOLS WHOSE HEATING SYSTEMS MUST BE TURNED OFF. (AUTHOR)

JOURNAL CITATION: NATION'S SCHOOLS; 93; 1; 53-54

ACCESSION NUMBER: EJ089427

CLEARINGHOUSE ACCESSION NUMBER: EA504444

PUBLICATION DATE: JAN 74

TITLE: HERE ARE 12 PAGES PACKED WITH WAYS TO HELP YOUR SCHOOL COPE WITH THE ENERGY (READ ECONOMY) CRISIS

PERSONAL AUTHOR: JONES, PHILIP G.

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *ADMINISTRATOR GUIDES; FUEL CONSUMPTION; FEDERAL STATE RELATIONSHIP

ISSUE: CIJEABST

ABSTRACT: LOCAL SCHOOL BOARDS MUST WRESTLE SUCCESSFULLY WITH STATE AND FEDERAL FUEL ALLOCATION AGENCIES TO ACHIEVE TOP SCHOOL PRIORITIES. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL; 161; 1; 30-31

ACCESSION NUMBER: EJ089428

CLEARINGHOUSE ACCESSION NUMBER: EA504445

PUBLICATION DATE: JAN 74

TITLE: THE FIRST QUESTION TO ASK: WHY SUDDENLY THIS "CRISIS"?

PERSONAL AUTHOR: KOHLMEIER, LOUIS M.

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *FEDERAL LEGISLATION; *UNITED STATES HISTORY; EDUCATIONAL NEEDS; SCHOOL FUNDS; FUEL CONSUMPTION

ISSUE: CIJEABST

ABSTRACT: THE HUGE OIL CORPORATIONS FOR MANY YEARS HAVE BEEN USING THEIR POLITICAL POWER AT STATE, NATIONAL, AND INTERNATIONAL LEVELS OF GOVERNMENT TO CONTROL PRODUCTION AND PRICES. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL; 161; 1; 32-33

ACCESSION NUMBER: EJ089429

CLEARINGHOUSE ACCESSION NUMBER: EA504446

PUBLICATION DATE: JAN 74

TITLE: WILL CHILDREN'S LEARNING BE STUNTED, AND TEACHERS IRKED BY LOW SCHOOL TEMPERATURES?

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *CLASSROOM ENVIRONMENT; *TEMPERATURE; *HEATING; STUDENT ATTITUDES; TEACHER ATTITUDES; FUEL CONSUMPTION

ISSUE: CIJEABST

ABSTRACT: HIGH ROOM TEMPERATURES CAN ACTUALLY BE HARMFUL TO CHILDREN AND TEACHERS. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL; 161; 1; 34,43-45

ACCESSION NUMBER: EJ089430
CLEARINGHOUSE ACCESSION NUMBER: EA504447
PUBLICATION DATE: JAN 74
TITLE: HOW TO CUT YOUR DISTRICT'S FUEL USE BY 25 PERCENT --
RIGHT NOW
PERSONAL AUTHOR: STEPHAN, ED
DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *FUEL
CONSUMPTION; *CLIMATE CONTROL; *RESEARCH; COMPUTER ORIENTED
PROGRAMS; SIMULATION; SCHOOL DISTRICT SPENDING
ISSUE: CIJEABST
ABSTRACT: A COMPUTER WAS USED TO SIMULATE WEATHER
CONDITIONS IN A SCHOOL DISTRICT. AS A RESULT, SEVERAL
SUGGESTIONS ARE MADE FOR SIGNIFICANT SAVINGS ON A SCHOOL
DISTRICT'S ENERGY EXPENDITURES. (WM)
JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL; 161; 1:
45-47

ACCESSION NUMBER: EJ089431
CLEARINGHOUSE ACCESSION NUMBER: EA504448
PUBLICATION DATE: JAN 74
TITLE: THESE ENERGY-SAVING RESOLUTIONS MAY HELP BRIGHTEN
YOUR NEW YEAR
DESCRIPTOR: *LIGHTING; *SCHOOL BUILDINGS; *ENERGY;
*CONSERVATION (CONCEPT); *SCHOOL DISTRICT SPENDING; FUEL
CONSUMPTION; STUDENT ATTITUDES
ISSUE: CIJEABST
ABSTRACT: MAKES SEVERAL RECOMMENDATIONS FOR ENERGY
CONSERVATION IN A SCHOOL DISTRICT AND SUGGESTS THAT
FINANCIAL SAVINGS BE SHARED WITH THE STUDENTS AS AN
INCENTIVE PROGRAM. (WM)
JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL; 161; 1:
47,59-60

ACCESSION NUMBER: EJ089438
CLEARINGHOUSE ACCESSION NUMBER: EA504455
PUBLICATION DATE: JAN-FEB 74
TITLE: SHOULD THE FUEL CRISIS MEAN A SCHOOL CRISIS?
PERSONAL AUTHOR: ROSS, DORIS
DESCRIPTOR: *FUEL CONSUMPTION; *PROBLEMS; *SUPPLIES;
*ENERGY; *CONSERVATION (CONCEPT); EMERGENCY PROGRAMS;
FEDERAL STATE RELATIONSHIP; FUEL SHORTAGE
ISSUE: CIJEABST
JOURNAL CITATION: COMPACT; 8; 1: 3-6

ACCESSION NUMBER: EJ090084
CLEARINGHOUSE ACCESSION NUMBER: SE510080
PUBLICATION DATE: DEC 73
TITLE: THE ENERGY COST OF AUTOMOBILES
PERSONAL AUTHOR: BERRY, R. STEPHEN; FELS, MARGARET F.
DESCRIPTOR: *DEPLETED RESOURCES; *INDUSTRIAL TECHNOLOGY;
*LEGISLATION; *MANUFACTURING INDUSTRY; *RECYCLING; ENERGY;
MOTOR VEHICLES; NATURAL RESOURCES; ENERGY REQUIREMENTS
ISSUE: CIJEABST
ABSTRACT: PRESENTS TWO RESPECTIVE COMPARISONS BETWEEN IDEAL
AND REAL ENERGY COST FOR THE MANUFACTURE OF A NEW AUTOMOBILE
AND BETWEEN FREE ENERGY SAVINGS FROM PROCESSING THE OLD
AUTOMOBILE INTO LOW AND HIGH GRADE SCRAPS. SUGGESTS THE
WASTED THERMODYNAMIC POTENTIAL SHOULD BE CONSIDERED IN
MAKING DECISIONS ABOUT ENERGY SAVINGS. (CC)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 29;
10; 11-17,58-60

ACCESSION NUMBER: EJ090121
CLEARINGHOUSE ACCESSION NUMBER: SE510130
PUBLICATION DATE: DEC 73
TITLE: ENERGY TRANSFER DEMONSTRATIONS
PERSONAL AUTHOR: LEGG, KENNETH D.
DESCRIPTOR: *DEMONSTRATIONS (EDUCATIONAL); *ENERGY;
*INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES;
*PHOTOCHEMICAL REACTIONS; CHEMISTRY; COLLEGE SCIENCE;
SCIENCE EDUCATION; SCIENCE MATERIALS; SCIENTIFIC PRINCIPLES
ISSUE: CIJEABST
JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 50; 12:
848-849

ACCESSION NUMBER: EJ090132
CLEARINGHOUSE ACCESSION NUMBER: SE510141
PUBLICATION DATE: DEC 73

TITLE: ENERGY CRISIS SPURS CONGRESS INTO ACTION
DESCRIPTOR: *AGENCIES; *ENERGY; *ENVIRONMENTAL EDUCATION;
*FEDERAL LEGISLATION; ENVIRONMENT; GOVERNMENT
(ADMINISTRATIVE BODY); LEGISLATION; *ENERGY CRISIS; ENERGY
RESEARCH AND DEVELOPMENT ADMINISTRATION; NUCLEAR ENERGY
COMMISSION
ISSUE: CIJEABST
ABSTRACT: DISCUSSES LEGISLATION RECENTLY PASSED BY CONGRESS
IN RESPONSE TO THE ENERGY CRISIS, AND THE NIXON
ADMINISTRATION'S PROPOSAL FOR CREATING A NEW ENERGY RESEARCH
AND DEVELOPMENT ADMINISTRATION (ERDA) AND A NUCLEAR ENERGY
COMMISSION (NEC). (JR)
JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 51; 50:
13-14

ACCESSION NUMBER: EJ090133
CLEARINGHOUSE ACCESSION NUMBER: SE510144
PUBLICATION DATE: DEC 73
TITLE: NEW NSF/RANN PROGRAM ON ENERGY
DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *RESEARCH
PROJECTS; *SCIENTIFIC RESEARCH; RESEARCH; SCIENCE EDUCATION;
SCIENCE PROGRAMS; *NATIONAL SCIENCE FOUNDATION; ADVANCED
ENERGY RESEARCH AND TECHNOLOGY; RESEARCH APPLIED TO NATIONAL
NEEDS
ISSUE: CIJEABST
ABSTRACT: DISCUSSES RESEARCH ENDEAVORS, RELATING TO THE
DEVELOPMENT OF NEW ENERGY SOURCES, BEING UNDERTAKEN BY THE
ADVANCED ENERGY RESEARCH AND TECHNOLOGY (AERT) DIVISION OF
THE NATIONAL SCIENCE FOUNDATION'S RESEARCH APPLIED TO
NATIONAL NEEDS (RANN) PROGRAM. (JR)
JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 7;
13; 1102-1103

ACCESSION NUMBER: EJ090137
CLEARINGHOUSE ACCESSION NUMBER: SE510169
PUBLICATION DATE: DEC 73
TITLE: FEDERAL ENERGY R&D PROGRAM SHAPING UP
PERSONAL AUTHOR: ZERKEL, FRED H.
DESCRIPTOR: *ENERGY; *FEDERAL PROGRAMS; *PROGRAM PROPOSALS;
*RESEARCH NEEDS; *SCIENTIFIC RESEARCH; CHEMICAL INDUSTRY;
DEPLETED RESOURCES; EDUCATIONAL RESOURCES; FUELS; NUCLEAR
PHYSICS
ISSUE: CIJEABST
ABSTRACT: SUMMARIZES THE PROGRAMS PROPOSED FOR THE
ADMINISTRATION'S ENERGY RESEARCH AND DEVELOPMENT EFFORTS BY
A SPECIAL TASK FORCE HEADED BY THE ATOMIC ENERGY COMMISSION
CHAIRMAN. INDICATES THAT NUCLEAR RESEARCH WOULD BE STRESSED
IN STRIVING FOR UNITED STATES FUTURE SELF-SUFFICIENCY IN
ENERGY. (CC)
JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 51; 51:
11-12

ACCESSION NUMBER: EJ090158
CLEARINGHOUSE ACCESSION NUMBER: SE510228
PUBLICATION DATE: JAN 74
TITLE: FISSION ENERGY AND OTHER SOURCES OF ENERGY
PERSONAL AUTHOR: ALFVEN, HANNES
DESCRIPTOR: *ENERGY; *POLICY FORMATION; *RESEARCH NEEDS;
*SCIENTIFIC RESEARCH; *SOCIAL ATTITUDES; DEPLETED RESOURCES;
ECOLOGICAL FACTORS; FUELS; NATURAL RESOURCES; SCIENCE
MATERIALS
ISSUE: CIJEABST
ABSTRACT: DISCUSSES DIFFERENT FORMS OF ENERGY SOURCES AND
BASIC REASONS FOR THE OPPOSITION TO THE USE OF ATOMIC
ENERGY. SUGGESTS THAT RESEARCH EFFORTS SHOULD ALSO BE AIMED
TOWARD THE FISSION TECHNOLOGY TO MAKE IT ACCEPTABLE BESIDES
MAJOR RESEARCH STUDIES CONDUCTED IN THE DEVELOPMENT OF
ALTERNATIVE ENERGY SOURCES. (CC)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30; 1:
4-8

ACCESSION NUMBER: EJ090643
CLEARINGHOUSE ACCESSION NUMBER: AA517569
PUBLICATION DATE: FEB 74
TITLE: ENERGY CRISIS: A TEACHER'S RESOURCE GUIDE
DESCRIPTOR: *CURRICULUM GUIDES; *COURSE DESCRIPTIONS;
*LESSON PLANS; TEACHING GUIDES; COURSE CONTENT; ENERGY;
RESOURCE GUIDES
ISSUE: CIJEABST
ABSTRACT: ARTICLE LISTS A SERIES OF OBJECTIVES, BACKGROUND
CONTENT, ACTIVITIES, REFERENCES, AND EXAMPLES OF MEASURING
DEVICES FOR USE IN THE CLASSROOM AND RELATING TO THE CURRENT
ENERGY CRISIS. (GB)
JOURNAL CITATION: NJEA REVIEW; 47; 6; 33-44

ACCESSION NUMBER: EJ090800
 CLEARINGHOUSE ACCESSION NUMBER: CE500482
 PUBLICATION DATE: JAN 74
 TITLE: LABOR AND THE ECONOMY IN 1973
 PERSONAL AUTHOR: DEFINA, CATHERINE C.
 DESCRIPTOR: *LABOR ECONOMICS; *COLLECTIVE BARGAINING;
 *ECONOMIC CLIMATE; *STRIKES; COURT LITIGATION; SOCIAL
 DISCRIMINATION; LABOR UNIONS; CONSUMER ECONOMICS;
 UNEMPLOYMENT; *INFLATION; ENERGY CRISIS
 ISSUE: CIJEABST
 ABSTRACT: A REVIEW OF THE ECONOMY IN 1973 INCLUDES COVERAGE
 OF PRICE CONTROLS AND FREEZES; MONETARY AND FISCAL POLICY;
 UNEMPLOYMENT; COLLECTIVE BARGAINING (APPAREL, RAILROADS,
 RUBBER, ELECTRICAL EQUIPMENT, POSTAL, TRUCKING,
 AUTOMOBILES); STRIKES; LEGAL DEVELOPMENTS (EMPLOYMENT
 DISCRIMINATION AND LEGISLATION); UNION DEVELOPMENTS
 (INDICENT, FARM FERMET, MERGERS AND LEADERSHIP CHANGES);
 THE ENERGY CRISIS. (EA)
 JOURNAL CITATION: MONTHLY LABOR REVIEW; 97; 1: 9-21

ACCESSION NUMBER: EJ091228
 CLEARINGHOUSE ACCESSION NUMBER: EA504496
 PUBLICATION DATE: DEC 73
 TITLE: CAMPUS BUILDINGS AND THE ENERGY CRISIS
 PERSONAL AUTHOR: KRAMER, LARRY
 DESCRIPTOR: *BUILDING OPERATION; *ENERGY; *EFFICIENCY;
 *FUEL CONSUMPTION; HEATING; SCHOOL MAINTENANCE; ELEMENTARY
 SCHOOLS; SECONDARY SCHOOLS; COLLEGES
 ISSUE: CIJEABST
 ABSTRACT: DESCRIBES WAYS TO CUT BACK ON FUEL CONSUMPTION IN
 SCHOOLS. (DN)
 JOURNAL CITATION: PLANNING FOR HIGHER EDUCATION; 2; 6:
 11-12

ACCESSION NUMBER: EJ091240
 CLEARINGHOUSE ACCESSION NUMBER: EA504516
 PUBLICATION DATE: JAN 74
 TITLE: ENVIRONMENTAL RESPONSE: STRAWBERRY HILL CAMPUS, BAR
 HARBOR, MAINE, THE 21ST AWARDS PROGRAM: A YEAR OF ISSUES
 DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *CAMPUSES; *BUILDING
 DESIGN; *ENERGY; *CONSERVATION (CONCEPT); RECYCLING;
 COLLEGES; COLLEGE OF THE ATLANTIC; BAR HARBOR; AWARDS
 ISSUE: CIJEABST
 ABSTRACT: THE PROGRESSIVE ARCHITECTURE AWARDS JURY GAVE
 CITATIONS TO THREE PROJECTS GROUPED AS "THE RESPONSE BY
 ARCHITECTS TO ENVIRONMENTAL PROBLEMS." ONE CITATION WAS
 AWARDED TO A COLLEGE CAMPUS DESIGN UTILIZING SOLAR ENERGY,
 RECYCLED MATERIALS, AND WIND POWER. (MF)
 JOURNAL CITATION: PROGRESSIVE ARCHITECTURE; 55; 1: 62-63

ACCESSION NUMBER: EJ091676
 CLEARINGHOUSE ACCESSION NUMBER: SE510226
 PUBLICATION DATE: DEC 73
 TITLE: METHANOL: A VERSATILE FUEL FOR IMMEDIATE USE
 PERSONAL AUTHOR: REED, T. B.; LERNER, R. M.
 DESCRIPTOR: *ENERGY; *ENVIRONMENT; *FUELS; *MANUFACTURING;
 ENGINES; ENVIRONMENTAL EDUCATION; POLLUTION; SCIENCE
 EDUCATION; WASTE DISPOSAL; *METHANOL
 ISSUE: CIJEABST
 ABSTRACT: ADVOCATES THE LARGE-SCALE PRODUCTION AND USE OF
 METHANOL AS A SUBSTITUTE FOR THE DIMINISHING RESERVES OF
 LOW-COST PETROLEUM RESOURCES. DESCRIBES THE MANUFACTURING
 PROCESS AND ADVANTAGES OF THE VERSATILE FUEL. (JR)
 JOURNAL CITATION: SCIENCE; 182; 4119; 1299-1304

ACCESSION NUMBER: EJ091677
 CLEARINGHOUSE ACCESSION NUMBER: SE510227
 PUBLICATION DATE: DEC 73
 TITLE: ENVIRONMENT: A LESSON FOR THE PEOPLE OF PLENTY
 PERSONAL AUTHOR: CARTER, LUTHER J.
 DESCRIPTOR: *CHANGING ATTITUDES; *ENERGY; *ENVIRONMENT;
 *ENVIRONMENTAL INFLUENCES; ATTITUDES; ENVIRONMENTAL
 EDUCATION; LIVING STANDARDS; NATURAL RESOURCES; POLLUTION;
 *ENERGY CRISIS
 ISSUE: CIJEABST
 ABSTRACT: DISCUSSES THE IMPACT OF THE ENERGY CRISIS UPON
 ENVIRONMENTAL QUALITY AND THE LIFE-STYLE OF AMERICANS. (JR)
 JOURNAL CITATION: SCIENCE; 182; 4119; 1323-1324

ACCESSION NUMBER: EJ091764
 CLEARINGHOUSE ACCESSION NUMBER: SE510372
 PUBLICATION DATE: JAN 74
 TITLE: THE OSMOTIC PUMP
 PERSONAL AUTHOR: LEVENSPIEL, OCTAVE; DE NEVERS, NOEL
 DESCRIPTOR: *ENERGY; *THERMODYNAMICS; *WATER RESOURCES;
 ELECTRICITY; ENVIRONMENTAL EDUCATION; OCEANOLOGY; PHYSICS;
 SCIENCE EDUCATION; SCIENTIFIC PRINCIPLES; *OSMOTIC PUMP
 ISSUE: CIJEABST
 ABSTRACT: DESCRIBES THE PRINCIPLE INVOLVED IN AN OSMOTIC
 PUMP USED TO EXTRACT FRESH WATER FROM THE OCEANS AND IN AN
 OSMOTIC POWER PLANT USED TO GENERATE ELECTRICITY. ALTHOUGH
 SHOWN TO BE THERMODYNAMICALLY FEASIBLE, THE OSMOTIC
 PRINCIPLE IS NOT LIKELY TO BE USED COMMERICALLY FOR THESE
 PURPOSES IN THE NEAR FUTURE. (JR)
 JOURNAL CITATION: SCIENCE; 183; 4121; 157-160

ACCESSION NUMBER: EJ091775
 CLEARINGHOUSE ACCESSION NUMBER: SE510383
 PUBLICATION DATE: F 73
 TITLE: A TEST OF OUR COMMITMENT
 PERSONAL AUTHOR: QUARLES, JOHN R., JR.
 DESCRIPTOR: *DECISION MAKING; *ECONOMIC DEVELOPMENT;
 *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *FUTURES (OF
 SOCIETY); ATTITUDES; NATURAL RESOURCES; POLLUTION;
 POPULATION GROWTH; ENERGY CRISIS
 ISSUE: CIJEABST
 ABSTRACT: EXAMINES THE CONFLICT THAT EXISTS BETWEEN A
 GROWING POPULATION AND EVER-EXPANDING CONSUMER ECONOMY ON
 THE ONE HAND AND FINITE RESOURCES AND THE NEED TO PROTECT
 THE ENVIRONMENT ON THE OTHER. THE PRESENT SITUATION CANNOT
 CONTINUE INDEFINITELY. A RE-ORDERING OF PRIORITIES AND
 CHANGE IN THE AMERICAN LIFESTYLE IS INEVITABLE. (JR)
 JOURNAL CITATION: NATURE STUDY; 27; 3: 11-13

ACCESSION NUMBER: EJ091776
 CLEARINGHOUSE ACCESSION NUMBER: SE510404
 PUBLICATION DATE: JAN 74
 TITLE: ENERGY, TECHNOLOGY, AND OUR FUTURE
 PERSONAL AUTHOR: KENYON, RICHARD L.
 DESCRIPTOR: *DEPLETED RESOURCES; *DEVELOPED NATIONS;
 *FUTURES (OF SOCIETY); *SCIENTIFIC RESEARCH; *TECHNOLOGICAL
 ADVANCEMENT; ECONOMICS; ENERGY; NATURAL RESOURCES;
 TECHNOLOGY
 ISSUE: CIJEABST
 ABSTRACT: DESCRIBES THE STRENGTH IN RESEARCH AND
 DEVELOPMENT AND THE TECHNOLOGICAL LEADERSHIP AS FACTORS
 DOMINATING "POSTINDUSTRIAL" COUNTRY ECONOMY. INDICATES THAT
 THE UNITED STATES FUTURE WELFARE WILL DEPEND HEAVILY UPON
 TECHNOLOGY, RATHER THAN AN ENERGY GLUT. (CC)
 JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 52; 2: 4

ACCESSION NUMBER: EJ091784
 CLEARINGHOUSE ACCESSION NUMBER: SE510419
 PUBLICATION DATE: DEC/JAN 74
 TITLE: A SIMPLE SOLAR FURNACE AND CAMP COOKER
 PERSONAL AUTHOR: BRYAN, R. C.
 DESCRIPTOR: *ELEMENTARY SCHOOL SCIENCES; *SCIENCE
 ACTIVITIES; *SOLAR RADIATION; *TEACHER DEVELOPED MATERIALS;
 ENERGY; GENERAL SCIENCE; HEAT; SCIENCE EDUCATION; SECONDARY
 SCHOOL SCIENCE; *SOLAR FURNACE
 ISSUE: CIJEABST
 JOURNAL CITATION: SCIENCE ACTIVITIES; 28-30

ACCESSION NUMBER: EJ092615
 CLEARINGHOUSE ACCESSION NUMBER: EA504535
 PUBLICATION DATE: JAN 74
 TITLE: THE ENERGY ADVISOR
 DESCRIPTOR: *CONSERVATION (CONCEPT); ECONOMICS;
 *EDUCATIONAL FACILITIES; *ENERGY; EQUIPMENT MAINTENANCE;
 FACILITY PLANNING; *OPERATING EXPENSES; SCHOOL MAINTENANCE;
 *ENERGY CONSERVATION
 ISSUE: CIJEABST
 ABSTRACT: THE FIRST ARTICLE IN A SERIES ON ENERGY
 CONSERVATION FOCUSES ON THE IMPORTANCE OF CONSCIENTIOUS
 PLANNING FOR ENERGY CONSERVATION WITHIN THE EXISTING SCHOOL
 SYSTEM. IN ATTEMPTS TO MODERNIZE, AND IN APPROACHES TO NEW
 CONSTRUCTION. (SEE EA 005 433 FOR RELATED INFORMATION.)
 (AUTHOR)
 JOURNAL CITATION: MODERN SCHOOLS; 9

ACCESSION NUMBER: EJ092636

CLEARINGHOUSE ACCESSION NUMBER: EA504565

PUBLICATION DATE: FEB 74

TITLE: OPEN INTERIORS FOR EFFICIENCY AND CONSERVATION

DESCRIPTOR: *OPEN PLAN SCHOOLS; *INTERIOR DESIGN; *ENERGY;
*CONSERVATION (CONCEPT); *COST EFFECTIVENESS; ELEMENTARY
SCHOOLS; *ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: OPEN PLAN INTERIORS IN SCHOOL DESIGN PROVIDE
EXCELLENT OPPORTUNITIES FOR CUTTING COSTS BY OPTIMIZING IN
CONSTRUCTION AND ELECTRIC COMFORT CONDITIONING. IMPORTANT
CONSIDERATIONS TO KEEP IN MIND WHEN PLANNING FOR THE OPEN
CONCEPT. (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS; 4-6

ACCESSION NUMBER: EJ092639

CLEARINGHOUSE ACCESSION NUMBER: EA504568

PUBLICATION DATE: FEB 74

TITLE: THE ENERGY ADVISOR

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *SCHOOL
MAINTENANCE; *EQUIPMENT MAINTENANCE; CLIMATE CONTROL;
*ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: THIS SECOND ARTICLE IN A SERIES ON ENERGY
CONSERVATION SETS UP AN OVERALL ATTACK ON ENERGY WASTE IN
THE SCHOOL ENVIRONMENT. THE CAMPAIGN BEGINS WITH PROPER
OPERATION AND MAINTENANCE PROCEDURES. (SEE EA 005 433 AND EA
504 535 FOR RELATED INFORMATION.) (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS; 11

ACCESSION NUMBER: EJ092648

CLEARINGHOUSE ACCESSION NUMBER: EA504591

PUBLICATION DATE: FEB 74

TITLE: ENERGY CRISIS: WHAT SCHOOLS ARE DOING ABOUT IT

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *FUEL
CONSUMPTION; *SCHOOL ADMINISTRATION; *ADMINISTRATOR GUIDES;
CHECK LISTS; ELEMENTARY SCHOOLS; SECONDARY SCHOOLS;
COLLEGES; ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: EASY-TO-USE CHECKLIST PERMITS ADMINISTRATORS TO
COMPARE THEIR ENERGY-SAVING TECHNIQUES WITH THOSE OF
SCHOOLS, COLLEGES, AND UNIVERSITIES THROUGHOUT THE COUNTRY.
(AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46: 6;
33-37

ACCESSION NUMBER: EJ092650

CLEARINGHOUSE ACCESSION NUMBER: EA504593

PUBLICATION DATE: FEB 74

TITLE: BAFFLES IN BOILER CUT FUEL CONSUMPTION 11 PERCENT

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *FUEL
CONSUMPTION; *HEATING; UNIVERSITIES

ISSUE: CIJEABST

ABSTRACT: IN A YEAR-LONG TEST, THE UNIVERSITY OF ILLINOIS
REDUCED FUEL CONSUMPTION 11 PERCENT BY INSTALLING BAFFLES IN
THE FIRETUBES OF ITS BOILERS. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46: 6; 60

ACCESSION NUMBER: EJ092652

CLEARINGHOUSE ACCESSION NUMBER: EA504608

PUBLICATION DATE: F-W 73

TITLE: ENERGY CONSERVATION IN THE COMPUTER ROOM

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *COMPUTERS;
*INFORMATION CENTERS; *CLIMATE CONTROL; FACILITIES;
MERCHANDISE INFORMATION; CONTROLLED ENVIRONMENT; ENERGY
CONSERVATION

ISSUE: CIJEABST

ABSTRACT: A PROCESS COOLING SYSTEM THAT PROVIDES A PROVEN
METHOD OF ENVIRONMENTAL CONTROL FOR COMPUTERS AS WELL AS FOR
OCCUPANTS. (AUTHOR/MF)

JOURNAL CITATION: ENVIRONMENTAL DESIGN; 13: 3; 18-19

ACCESSION NUMBER: EJ092653

CLEARINGHOUSE ACCESSION NUMBER: EA504609

PUBLICATION DATE: F-W 73

TITLE: BETTER CONTROLS: THE ANSWER TO ENERGY CONSERVATION

DESCRIPTOR: *ENERGY; *CONSERVATION (CONCEPT); *BUILDING
OPERATION; *MAINTENANCE; *COMPUTERS; MERCHANDISE
INFORMATION; SAFETY; ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: THE MANAGEMENT OF THE BISHARCK, NORTH DAKOTA,
HOLIDAY INN DISCOVERED THAT SAVING ENERGY IS SAVING MONEY
AFTER INSTALLING AN AUTOMATED COMPUTER-CONTROLLED
MAINTENANCE SYSTEM. (AUTHOR)

JOURNAL CITATION: ENVIRONMENTAL DESIGN; 13: 3; 20-22

ACCESSION NUMBER: EJ092660

CLEARINGHOUSE ACCESSION NUMBER: EA504617

PUBLICATION DATE: FEB 74

TITLE: GETTING THE RIGHT LIGHT ON THE SUBJECT

PERSONAL AUTHOR: KLIMENT, STEPHEN A.

DESCRIPTOR: *LIGHTING; *STANDARDS; *ILLUMINATION LEVELS;
*EDUCATIONAL FACILITIES; *SCHOOL PLANNING; ENERGY
CONSERVATION

ISSUE: CIJEABST

ABSTRACT: LIGHTING STANDARDS IN EDUCATIONAL FACILITIES --
LONG AN ISSUE OF DISPUTE BETWEEN ARCHITECTS AND LIGHTING
ENGINEERS -- IS MORE THAN EVER IN THE LIMELIGHT BECAUSE OF
THE ENERGY CRISIS. (AUTHOR)

JOURNAL CITATION: AIA JOURNAL; 61: 2; 44-46

ACCESSION NUMBER: EJ092662

CLEARINGHOUSE ACCESSION NUMBER: EA504619

PUBLICATION DATE: DEC 73

TITLE: ENERGY CONSERVATION FOR PUBLIC OFFICE BUILDINGS

PERSONAL AUTHOR: ROUSH, LARRY F.

DESCRIPTOR: *PUBLIC FACILITIES; *OFFICES (FACILITIES);
*ENVIRONMENTAL RESEARCH; *BUILDING INNOVATION; FACILITY
GUIDELINES; SYSTEMS APPROACH; SOLAR RADIATION; HUMAN
ENGINEERING; *ENERGY CONSERVATION; LIFE CYCLE COSTING

ISSUE: CIJEABST

ABSTRACT: THE ENERGY CONSERVATION POLICY FOR PUBLIC OFFICE
BUILDINGS INCLUDES EXPERIMENTAL DESIGNS OF NEW FEDERAL
OFFICE BUILDINGS IN MANCHESTER, NEW HAMPSHIRE AND SAGINAW,
MICHIGAN, AS WELL AS IMMEDIATE ENERGY CONSERVATION EFFORTS.
(AUTHOR/MF)

JOURNAL CITATION: BUILDING RESEARCH; 10: 3-4; 5-8

ACCESSION NUMBER: EJ092663

CLEARINGHOUSE ACCESSION NUMBER: EA504620

PUBLICATION DATE: DEC 73

TITLE: ENERGY CRITERIA FOR RESOURCE OPTIMIZATION

PERSONAL AUTHOR: GRIFFITH, J. W.

DESCRIPTOR: *BUILDING DESIGN; *COST EFFECTIVENESS; ECONOMIC
RESEARCH; FACILITY PLANNING; *INPUT OUTPUT ANALYSIS;
MATHEMATICAL MODELS; *RESOURCE ALLOCATIONS; *ENERGY
CONSERVATION

ISSUE: CIJEABST

ABSTRACT: RESOURCE OPTIMIZATION IN BUILDING DESIGN IS BASED
ON THE TOTAL SYSTEM OVER ITS EXPECTED USEFUL LIFE.
ALTERNATIVE ENVIRONMENTAL SYSTEMS CAN BE EVALUATED IN TERMS
OF RESOURCE COSTS AND GOAL EFFECTIVENESS. (AUTHOR/MF)

JOURNAL CITATION: BUILDING RESEARCH; 10: 3-4; 9-12

ACCESSION NUMBER: EJ092666

CLEARINGHOUSE ACCESSION NUMBER: EA504623

PUBLICATION DATE: DEC 73

TITLE: THE WISE AND CAREFUL USE OF HV/AC

PERSONAL AUTHOR: DEPPEN, ROBERT W.

DESCRIPTOR: *CLIMATE CONTROL; *MECHANICAL EQUIPMENT;
*PHYSICAL DESIGN NEEDS; *COMPONENT BUILDING SYSTEMS; SYSTEMS
APPROACH; VENTILATION; *ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: DISCUSSES FACTORS THAT AFFECT ENERGY CONSUMPTION
AND DESCRIBES A VARIETY OF HEAT RECOVERY DEVICES THAT CAN BE
APPLIED TO MANY NEW OR EXISTING VENTILATION SYSTEMS.
(AUTHOR/MF)

JOURNAL CITATION: BUILDING RESEARCH; 10: 3-4; 21-23

ACCESSION NUMBER: EJ092667

CLEARINGHOUSE ACCESSION NUMBER: EA504624

PUBLICATION DATE: DEC 73

TITLE: LIFE CYCLE COST-BENEFIT ANALYSIS FOR ELECTRIC
LIGHTING

PERSONAL AUTHOR: CLARK, GEORGE W.

DESCRIPTOR: *LIGHTING DESIGN; *COST EFFECTIVENESS;
*ILLUMINATION LEVELS; *TASK PERFORMANCE; DESIGN NEEDS;
STANDARDS; *LIFE CYCLE COSTING; ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: PRESENTS SOME OF THE OPTIONS IN LIGHTING DESIGN THAT MEET ILLUMINATION STANDARDS AND CONSERVE ENERGY, BUT WHICH ARE FLEXIBLE. (AUTHOR/MF)

JOURNAL CITATION: BUILDING RESEARCH; 10; 3-4; 24-28

ACCESSION NUMBER: EJ092668

CLEARINGHOUSE ACCESSION NUMBER: EA504625

PUBLICATION DATE: DEC 73

TITLE: A SYSTEMS MORPHOLOGY FOR EXAMINING ENERGY UTILIZATION IN BUILDINGS

PERSONAL AUTHOR: WINDHEIM, LEE STEPHEN

DESCRIPTOR: *SYSTEMS APPROACH; *FUEL CONSUMPTION; *CLASSIFICATION; *COMPONENT BUILDING SYSTEMS; CLIMATE CONTROL; MAN MACHINE SYSTEMS; COST EFFECTIVENESS; *ENERGY CONSERVATION; LIFE CYCLE COSTING

ISSUE: CIJEABST

ABSTRACT: A CLASSIFICATION SYSTEM FOR ANALYZING THE DYNAMICS OF ENERGY CONSUMPTION IN BUILDING COMPONENTS. (AUTHOR/MF)

JOURNAL CITATION: BUILDING RESEARCH; 10; 3-4; 29-33

ACCESSION NUMBER: EJ092669

CLEARINGHOUSE ACCESSION NUMBER: EA504626

PUBLICATION DATE: DEC 73

TITLE: ENERGY CONSERVATION IN THE GENERAL SERVICES ADMINISTRATION

PERSONAL AUTHOR: WEISEN, WALTER A.

DESCRIPTOR: *BUILDING OPERATION; *FUEL CONSUMPTION; *PUBLIC FACILITIES; ILLUMINATION LEVELS; CLIMATE CONTROL; GUIDELINES; *ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: DESCRIBES SOME OF THE PROCEDURES ALREADY BEING TAKEN IN EXISTING GSA-OPERATED BUILDINGS TO REDUCE IMMEDIATELY FUEL AND ENERGY REQUIREMENTS WITHOUT THE LUXURY OF TIME CONSUMING AND COSTLY RENOVATIONS. (AUTHOR/MF)

JOURNAL CITATION: BUILDING RESEARCH; 10; 3-4; 34-39

ACCESSION NUMBER: EJ092690

CLEARINGHOUSE ACCESSION NUMBER: EA504647

PUBLICATION DATE: MAR 74

TITLE: SUN LIGHTENS HEATING LOAD FOR FOUR SCHOOLS

PERSONAL AUTHOR: HUNT, MARGARET

DESCRIPTOR: *HEATING; *PILOT PROJECTS; SOLAR RADIATION; CLIMATE CONTROL; FUEL CONSUMPTION; JUNIOR HIGH SCHOOLS; ELEMENTARY SCHOOLS; HIGH SCHOOLS; ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: DESCRIBES THE MAIN FEATURES OF FOUR EXPERIMENTAL SOLAR HEATING PLANS TO BE INSTALLED IN FOUR DIFFERENT SCHOOLS IN MARYLAND, MASSACHUSETTS, MINNESOTA, AND VIRGINIA. (AUTHOR/DN)

JOURNAL CITATION: NATION'S SCHOOLS; 93; 3; 8-9

ACCESSION NUMBER: EJ092723

CLEARINGHOUSE ACCESSION NUMBER: EA504680

PUBLICATION DATE: MAR 74

TITLE: MANAGING THE ENERGY CRISIS

PERSONAL AUTHOR: PRITCHARD, RUTH

DESCRIPTOR: *ENERGY; *SCHOOL BUILDINGS; *FUEL CONSUMPTION; *CONSERVATION EDUCATION; SCHOOL MAINTENANCE; COST EFFECTIVENESS; SCHOOL DESIGN; *ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: SCHOOL LEADERS HAVE ALREADY TAKEN EMERGENCY ACTIONS TO DEAL WITH THE IMMEDIATE ENERGY CRISIS. NOW THEY NEED TO MAKE LONG-RANGE PLANS TO ADJUST TO AN ENERGY SHORTAGE WITH NO END IN SIGHT. (AUTHOR)

JOURNAL CITATION: CALIFORNIA SCHOOL BOARDS; 33; 3; 17-19

ACCESSION NUMBER: EJ092728

CLEARINGHOUSE ACCESSION NUMBER: EA504685

PUBLICATION DATE: MAR 74

TITLE: FACING UP TO THE ENERGY CRISIS. TWO VIEWS

PERSONAL AUTHOR: DELL'ISOLA, A. J.

DESCRIPTOR: *FUEL CONSUMPTION; *SCHOOL SYSTEMS; *COST EFFECTIVENESS; *STUDENT TRANSPORTATION; *BUILDING OPERATION; FACILITY UTILIZATION RESEARCH; OPERATING EXPENSES; CONSTRUCTION COSTS; LIFE CYCLE COSTS; ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: ONE ARTICLE OUTLINES A PROPOSED NEW APPROACH TO FUEL SUPPLY AND SELECTION FOR LARGE SCHOOL SYSTEMS; THE OTHER SUGGESTS CONSERVATION PRACTICES IN THE AREAS OF SCHOOL PLANT OPERATION AND STUDENT TRANSPORTATION. (AUTHOR/MF)

JOURNAL CITATION: MODERN SCHOOLS; 4-7

ACCESSION NUMBER: EJ092730

CLEARINGHOUSE ACCESSION NUMBER: EA504687

PUBLICATION DATE: MAR 74

TITLE: THE ENERGY ADVISOR

DESCRIPTOR: *SCHOOL MAINTENANCE; *PRESERVATION; *SCHEDULING; *BUILDING OPERATION; *EQUIPMENT MAINTENANCE; GUIDES; ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: STRESSES THE IMPORTANCE OF A GOOD MAINTENANCE PROGRAM, WITH UP-TO-DATE POLICIES AND PERSONNEL, AND ARGUES THAT THE GUIDING PRINCIPLE OF A GOOD MAINTENANCE PROGRAM IS SCHEDULING. (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS; 11

ACCESSION NUMBER: EJ092735

CLEARINGHOUSE ACCESSION NUMBER: EA504692

PUBLICATION DATE: MAR-APR 74

TITLE: FIRE WHICH IS THE BEST EXIT? (A LOOK AT COMMUNITY EDUCATION DURING THE ENERGY CRISIS)

PERSONAL AUTHOR: WOODS, GEORGE S., JR.

DESCRIPTOR: *RESOURCE ALLOCATIONS; *COMMUNITY EDUCATION; SCHOOL CLOSING; BOARD OF EDUCATION POLICY; SPACE UTILIZATION; *ENERGY CONSERVATION

ISSUE: CIJEABST

ABSTRACT: STRESSES THAT IN SPITE OF THE ENERGY CRISIS, COMMUNITY EDUCATION IS NO PLACE TO CUT BACK. CONTENTS THAT THERE IS A NEED FOR A PROCESS FOR MOBILIZING PEOPLE TO TAKE POSITIVE STEPS IN SOLVING THE ENERGY PROBLEM AT THE COMMUNITY LEVEL. (AUTHOR/DN)

JOURNAL CITATION: COMMUNITY EDUCATION JOURNAL; 4; 2; 24,62

ACCESSION NUMBER: EJ093491

CLEARINGHOUSE ACCESSION NUMBER: SE510634

PUBLICATION DATE: FEB 74

TITLE: EDITORIAL: SPEAKING - ENERGY: WORLD NEEDS AND RESERVES

DESCRIPTOR: *DEPLETED RESOURCES; *ENERGY; *FUELS; *GEOGRAPHIC DISTRIBUTION; *WORLD PROBLEMS; ENVIRONMENTAL EDUCATION; FUEL CONSUMPTION; FUTURES (OF SOCIETY); NATURAL RESOURCES; ENERGY REQUIREMENTS

ISSUE: CIJEABST

ABSTRACT: DISCUSSES THE WORLD'S ENERGY REQUIREMENTS IN CONTRAST WITH THE WORLD'S KNOWN AND UNKNOWN ENERGY RESERVES TO ILLUSTRATE THE NEED FOR A STABLE AND MORE EQUITABLE WORLD-WIDE ENERGY DISTRIBUTION SYSTEM, ESPECIALLY FOR OIL-IMPORTING COUNTRIES. (CC)

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 51; 2; 71

ACCESSION NUMBER: EJ093638

CLEARINGHOUSE ACCESSION NUMBER: S0502709

PUBLICATION DATE: 74

TITLE: URBAN ACTION, THE CHALLENGE OF THE CITY

PERSONAL AUTHOR: ROSEN, MEL

DESCRIPTOR: *ENERGY; *FUTURES (OF SOCIETY); *URBAN STUDIES; ENVIRONMENTAL EDUCATION; CITIZEN ROLE; LEARNING ACTIVITIES; RESOURCE MATERIALS; UNITS OF STUDY (SUBJECT FIELDS); SOCIAL STUDIES

ISSUE: CIJEABST

ABSTRACT: A SAMPLE UNIT PROVIDING MATERIALS AND ACTIVITIES FOR GRADES 5-12 FAMILIARIZES THE STUDENT WITH CONCERNS AFFECTING HIS FUTURE IN RELATION TO THE ENERGY CRISIS AND HIS ROLE AS A CITIZEN. (AUTHOR/KM)

JOURNAL CITATION: SOCIAL STUDIES REVIEW; 13; 3 CONFERENCE ISSUE; 43-47

ACCESSION NUMBER: EJ094550

CLEARINGHOUSE ACCESSION NUMBER: EA504739

PUBLICATION DATE: FEB 74

TITLE: INTELLECTUAL GROWTH IN CHILDREN AND THE THEORY OF "BIOPLASMIC FORCES"

PERSONAL AUTHOR: OGLETTREE, EARL J.

DESCRIPTOR: *PRESCHOOL LEARNING; *COGNITIVE DEVELOPMENT; *PRESCHOOL EDUCATION; *CHILD PSYCHOLOGY; *CHILD DEVELOPMENT; PARAPSYCHOLOGY; BIOPLASMIC ENERGY

ISSUE: CIJEABST

ABSTRACT: A NEW THEORY OF ENERGY FORCES DEVELOPED IN THE U.S.S.R. SEEMS TO SUBSTANTIATE THE SUGGESTION THAT ACADEMIC LEARNING BEFORE A CHILD IS MATURATIONALLY READY WILL REDUCE HIS LEARNING POTENTIAL. (AUTHOR)

JOURNAL CITATION: JMI DELTA KAPPA: 55: 6: 407-412

ACCESSION NUMBER: EJ094567

CLEARINGHOUSE ACCESSION NUMBER: EA504756

PUBLICATION DATE: MAR 74

TITLE: RESPONSE TO THE ENERGY CRISIS

DESCRIPTOR: *NATIONAL SURVEYS; *STATE DEPARTMENTS OF EDUCATION; *ENERGY; *COSTS; *SCHOOL DISTRICT SPENDING; ENERGY CRISIS

ISSUE: CIJEABST

ABSTRACT: RESULTS OF A 50-STATE SURVEY OF THE EDUCATION COMMUNITY'S REACTION TO THE ENERGY CRISIS. (JF)

JOURNAL CITATION: SCHOOL MANAGEMENT: 18: 3: 36

ACCESSION NUMBER: EJ094583

CLEARINGHOUSE ACCESSION NUMBER: EA504772

PUBLICATION DATE: MAR 74

TITLE: SELECT LIGHTING WITH ENERGY IN MIND

PERSONAL AUTHOR: LA GUIZA, FRANK F.

DESCRIPTOR: *LIGHTING DESIGN; *ENERGY CONSERVATION; *ILLUMINATION LEVELS; *PHYSICAL DESIGN NEEDS; *SCHOOL ENVIRONMENT

ISSUE: CIJEABST

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 46: 7: 34-55

ACCESSION NUMBER: EJ094585

CLEARINGHOUSE ACCESSION NUMBER: EA504774

PUBLICATION DATE: MAR 74

TITLE: ENERGY SHORTAGE: A BENIGN CRISIS?

PERSONAL AUTHOR: ARMSTRONG, ELLIS L.

DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION; *METROPOLITAN AREAS; *CITY PLANNING; *SYSTEMS APPROACH; *ENVIRONMENTAL CRITERIA; *NATURAL RESOURCES; *TRANSPORTATION; *WASTE DISPOSAL; *BUILDING DESIGN

ISSUE: CIJEABST

ABSTRACT: THE ENERGY SHORTAGE WILL HAVE A FAVORABLE EFFECT ON CITY REVITALIZING ACTIVITIES AS INNOVATIVE THINKING IS APPLIED TO CITY AND TRANSPORTATION PLANNING, BUILDING DESIGN, SERVICE AND RECREATIONAL FACILITIES, AND SEWAGE TREATMENT. (AUTHOR/MF)

JOURNAL CITATION: CONSULTING ENGINEER: 42: 3: 112-116

ACCESSION NUMBER: EJ094590

CLEARINGHOUSE ACCESSION NUMBER: EA504779

PUBLICATION DATE: APR 74

TITLE: ENERGY CONSUMERS TURN INTO CONSERVATIONISTS

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *CONSERVATION EDUCATION; *ENERGY; *CURRICULUM DEVELOPMENT; *ENERGY CONSERVATION; *NATURAL RESOURCES; *CURRICULUM PLANNING; *EDUCATIONAL CHANGE; *SECONDARY EDUCATION; *ELEMENTARY EDUCATION

ISSUE: CIJEABST

ABSTRACT: DESCRIBES HOW THE TOPIC ENERGY CONSERVATION HAS BEEN INTRODUCED INTO SCHOOL CURRICULUMS. (AUTHOR/DN)

JOURNAL CITATION: NATION'S SCHOOLS: 93: 4: 26-28

ACCESSION NUMBER: EJ094607

CLEARINGHOUSE ACCESSION NUMBER: EA504797

PUBLICATION DATE: APR 74

TITLE: WHAT TO TEACH IN YOUR SCHOOL DISTRICT AFTER THE ENERGY CRISIS SPUTTERS

PERSONAL AUTHOR: FREEMAN, S. DAVID

DESCRIPTOR: *ENERGY; *CURRICULUM DEVELOPMENT; *CONSERVATION EDUCATION; *FUTURES (OF SOCIETY); *ENVIRONMENTAL EDUCATION; *EDUCATIONAL INNOVATION; *ENERGY CRISIS

ISSUE: CIJEABST

ABSTRACT: THE CURRENT ENERGY CRISIS PROVIDES THE OPPORTUNITY TO SUPPLY THE NEXT GENERATION OF AMERICANS WITH THE INFORMATION AND INSIGHTS NECESSARY TO DEAL RATIONALLY WITH ENERGY NEEDS, CHANGING LIFESTYLES, ENVIRONMENTAL CONCERNS, AND THE CONTROL OF ENERGY DECISIONS THAT AFFECT EVERYONE. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL: 161: 4: 50-52

ACCESSION NUMBER: EJ094613

CLEARINGHOUSE ACCESSION NUMBER: E1504803

PUBLICATION DATE: MAR-APR 74

TITLE: HOW TO FIND BENEFITS IN THE ENERGY CRISIS

PERSONAL AUTHOR: BAIRD, JOHN L.

DESCRIPTOR: *ENERGY; *HEATING; *FUEL CONSUMPTION; *DESIGN NEEDS; *ADMINISTRATOR GUIDES; UTILITIES; COSTS; ENERGY CRISIS

ISSUE: CIJEABST

ABSTRACT: STATE LEADERS AND SCHOOL OFFICIALS MUST UNDERSTAND THAT THE INTERMEDIATE AND LONG-TERM IMPLICATIONS OF THE ENERGY CRISIS FOR EDUCATION ARE MUCH DIFFERENT FROM THE CURRENT OR SHORT-TERM PROBLEMS. ACTING ON THAT BASIS, THEY MAY BE ABLE TO TURN SOME OF THE POTENTIAL DIFFICULTIES INTO REAL BENEFITS. (AUTHOR)

JOURNAL CITATION: COMPACT: 8: 2: 27-22

ACCESSION NUMBER: EJ094658

CLEARINGHOUSE ACCESSION NUMBER: EA504848

PUBLICATION DATE: APR 74

TITLE: HOW YOU METER ELECTRICITY MAKES A DIFFERENCE

PERSONAL AUTHOR: GARDNER, JOHN C.

DESCRIPTOR: *FUEL CONSUMPTION; *ENERGY CONSERVATION; *ELECTRICITY; *ELECTRICAL SYSTEMS; *COST EFFECTIVENESS; *HIGHER EDUCATION; *COINCIDENT DEMAND METERING

ISSUE: CIJEABST

ABSTRACT: COLUMBIA UNIVERSITY SAVES \$47,000 A YEAR BY SWITCHING FROM CONJUNCTIONAL BILLING TO COINCIDENT DEMAND METERING; AND THE REDUCTION OF NIGHTTIME LIGHTING LOADS COULD PRODUCE AN ADDITIONAL SAVINGS OF \$30,000 A YEAR. (AUTHOR/MF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 46: 8: 9

ACCESSION NUMBER: EJ094660

CLEARINGHOUSE ACCESSION NUMBER: EA504850

PUBLICATION DATE: APR 74

TITLE: LESS HEAT IS WASTED WITH MODULAR BOILERS

DESCRIPTOR: *ENERGY CONSERVATION; *HEATING; *MODULAR BUILDING DESIGN; *FUEL CONSUMPTION; *FLEXIBLE FACILITIES; *BOILERS; *MODULAR BOILERS

ISSUE: CIJEABST

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 46: 8: 37

ACCESSION NUMBER: EJ095084

CLEARINGHOUSE ACCESSION NUMBER: SE510505

PUBLICATION DATE: FEB 74

TITLE: COAL AND THE PRESENT ENERGY SITUATION

PERSONAL AUTHOR: OSBORN, ELBURT F.

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *ENERGY; *FUELS; *TECHNOLOGICAL ADVANCEMENT; *COLLEGE SCIENCE; *ENVIRONMENT; *NATURAL RESOURCES; *SCIENCE EDUCATION; *TECHNOLOGY; *COAL

ISSUE: CIJEABST

ABSTRACT: ADVOCATES AN INCREASE IN THE USE OF COAL TO ALLEVIATE THE OIL AND GAS SHORTAGE. OUTLINES PRESENT DETERRENTS WHICH LIMIT THE EXPLOITATION OF COAL, AND DISCUSSES WAYS IN WHICH THIS ENERGY SOURCE MIGHT BE MORE EFFECTIVELY UTILIZED. (JF)

JOURNAL CITATION: SCIENCE: 183: 4124: 477-481

ACCESSION NUMBER: EJ095087

CLEARINGHOUSE ACCESSION NUMBER: SE510548

PUBLICATION DATE: SEP 73

TITLE: THE DECLINE OF THE ATOM AND THE RISE OF THE SUN AS FUTURE ENERGY SOURCES

PERSONAL AUTHOR: BOCKRIS, J. O'M.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS; *FUTURES (OF SOCIETY); *SOLAR RADIATION; *ENVIRONMENT; *FUEL CONSUMPTION; *NATURAL RESOURCES; *SCIENCE EDUCATION; *AUSTRALIA

ISSUE: CIJEABST

ABSTRACT: EXAMINES THE VARIOUS ENERGY SOURCES LIKELY TO BE DEVELOPED IN THE NEAR FUTURE, AND SUGGESTS THAT THE ONLY SATISFACTORY SOLUTION LIES IN THE DEVELOPMENT OF SOLAR ENERGY AND AN ASSOCIATED NON-POLLUTING "HYDROGEN ECONOMY." CONCLUDES THAT AUSTRALIA HAS IDEAL CONDITIONS AND THE TECHNICAL EXPERTISE TO LEAD IN SOLAR ENERGY RESEARCH. (JF)

JOURNAL CITATION: SOUTH AUSTRALIAN SCIENCE TEACHER JOURNAL: 733: 2-9

ACCESSION NUMBER: EJ095088
 CLEARINGHOUSE ACCESSION NUMBER: SE510549
 PUBLICATION DATE: SEP 73
 TITLE: THE LIMITS OF ENERGY
 PERSONAL AUTHOR: WARREN, B.
 DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUEL CONSUMPTION; *FUELS; *SECONDARY SCHOOL SCIENCE; NATURAL RESOURCES; POLLUTION; POPULATION TRENDS; SCIENCE EDUCATION
 ISSUE: CIJEABST
 ABSTRACT: BRIEFLY DISCUSSES THE LIMITS OF PRESENT ENERGY SOURCES AND OUTLINES POSSIBLE ALTERNATIVES THAT MIGHT BE DEVELOPED TO PROVIDE ENERGY FOR INCREASINGLY DEMANDING INDUSTRIALIZED SOCIETIES. (JR)
 JOURNAL CITATION: SOUTH AUSTRALIAN SCIENCE TEACHERS JOURNAL; 733; 10-11

ACCESSION NUMBER: EJ095089
 CLEARINGHOUSE ACCESSION NUMBER: SE510550
 PUBLICATION DATE: SEP 73
 TITLE: THE ENERGY CRISIS
 PERSONAL AUTHOR: SANDERCOCK, TED
 DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS; *SECONDARY SCHOOL SCIENCE; ELECTRICITY; ENVIRONMENT; NATURAL RESOURCES; POLLUTION; SOLAR RADIATION; *ENERGY CRISIS
 ISSUE: CIJEABST
 ABSTRACT: DISCUSSES THE NATURE OF ENERGY, THE WAYS IN WHICH IT IS USED IN OUR SOCIETY, NON-POLLUTING SOURCES OF ENERGY, AND MEANS BY WHICH ENERGY CAN BE CONSERVED TO ALLEVIATE THE SHORTAGE AND MINIMIZE ENVIRONMENTAL DEGRADATION. (JR)
 JOURNAL CITATION: SOUTH AUSTRALIAN SCIENCE TEACHERS JOURNAL; 733; 12-16

ACCESSION NUMBER: EJ095090
 CLEARINGHOUSE ACCESSION NUMBER: SE510551
 PUBLICATION DATE: SEP 73
 TITLE: FLINDERS UNIVERSITY ELECTRIC VEHICLE PROJECT
 PERSONAL AUTHOR: ATKINSON, D. A.
 DESCRIPTOR: *ELECTROMECHANICAL TECHNOLOGY; *MOTOR VEHICLES; *SECONDARY SCHOOL SCIENCE; *TECHNOLOGICAL ADVANCEMENT; ELECTRIC BATTERIES; ELECTRIC MOTORS; ENERGY; SCIENCE EDUCATION; TRANSPORTATION; *ELECTRIC VEHICLES
 ISSUE: CIJEABST
 ABSTRACT: OUTLINES THE SPECIFICATIONS AND PRINCIPLES INVOLVED IN THE OPERATION OF AN ELECTRIC CAR DEVELOPED BY THE INSTITUTE OF SOLAR AND ELECTROCHEMICAL ENERGY CONVERSION AT FLINDERS UNIVERSITY IN SOUTH AUSTRALIA. (JR)
 JOURNAL CITATION: SOUTH AUSTRALIAN SCIENCE TEACHERS JOURNAL; 733; 18-21

ACCESSION NUMBER: EJ095130
 CLEARINGHOUSE ACCESSION NUMBER: SE510591
 PUBLICATION DATE: DEC 73
 TITLE: SCIENCE EDUCATION AND ENVIRONMENTAL CRISIS
 PERSONAL AUTHOR: KIRK, J. T. O.
 DESCRIPTOR: *ECOLOGICAL FACTORS; *ENVIRONMENTAL EDUCATION; *SCIENCE EDUCATION; *SCIENCE TEACHERS; ENERGY; ENVIRONMENT; POLLUTION; SECONDARY SCHOOL SCIENCE; TEACHER RESPONSIBILITY; *AUSTRALIA
 ISSUE: CIJEABST
 ABSTRACT: DISCUSSES A WIDE RANGE OF TOPICS RELATED TO THE ENVIRONMENTAL CRISIS WITH PARTICULAR EMPHASIS ON CONSEQUENCES FOR AUSTRALIA. SUGGESTS THAT AUSTRALIAN SCIENCE TEACHERS HAVE BOTH THE OPPORTUNITY AND RESPONSIBILITY TO PLAY AN ACTIVE ROLE IN ENVIRONMENTAL EDUCATION. (JR)
 JOURNAL CITATION: AUSTRALIAN SCIENCE TEACHERS JOURNAL; 19; 4; 9-14

ACCESSION NUMBER: EJ095153
 CLEARINGHOUSE ACCESSION NUMBER: SE510611
 PUBLICATION DATE: FEB 74
 TITLE: SUCCESS, SUCCESSION, AND ADAM SMITH
 PERSONAL AUTHOR: WOODWELL, G. M.
 DESCRIPTOR: *ECOLOGICAL FACTORS; *ECONOMIC FACTORS; *ENERGY; *ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES; ECOLOGY; ENVIRONMENT; POLLUTION; SCIENCE EDUCATION; WORLD PROBLEMS
 ISSUE: CIJEABST
 ABSTRACT: OFFERS A CONTEMPORARY ANALYSIS OF THE INTERACTION OF MAN AND THE REST OF THE BIOTA. SUGGESTS THAT THE DEPENDENCE OF MAN ON NATURE IS, MORE THAN THE CRISIS OF ENERGY AND WORLD ECONOMICS, THE EMERGENT SCIENTIFIC AND

POLITICAL ISSUE OF THE NEXT YEARS. (JR)
 JOURNAL CITATION: BIOSCIENCE; 24; 2; 81-87

ACCESSION NUMBER: EJ095155
 CLEARINGHOUSE ACCESSION NUMBER: SE510616
 PUBLICATION DATE: FEB 74
 TITLE: WHY TEACH ENVIRONMENTAL CHEMISTRY?
 PERSONAL AUTHOR: GARDNER, MARJORIE H.
 DESCRIPTOR: *CHEMISTRY; *CURRICULUM; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *SECONDARY SCHOOL SCIENCE; ECOLOGICAL FACTORS; ENERGY; POLLUTION; SCIENCE EDUCATION; WASTES
 ISSUE: CIJEABST
 ABSTRACT: DISCUSSES THE IMPORTANCE OF TEACHING ENVIRONMENTAL CHEMISTRY IN SECONDARY SCHOOL SCIENCE CLASSES AND OUTLINES FIVE EXAMPLES OF ENVIRONMENTAL CHEMISTRY PROBLEMS THAT FOCUS ON MAJOR CONCEPTS OF CHEMISTRY AND HAVE CRITICAL IMPLICATIONS FOR HUMAN SURVIVAL AND WELL-BEING. (JR)
 JOURNAL CITATION: SCIENCE TEACHER; 41; 2; 27-30

ACCESSION NUMBER: EJ095183
 CLEARINGHOUSE ACCESSION NUMBER: SE510670
 PUBLICATION DATE: FEB 74
 TITLE: FEDERAL R & D SPENDING ON THE RISE AGAIN
 DESCRIPTOR: *EXPENDITURES; *FEDERAL PROGRAMS; *PROGRAM BUDGETING; *RESEARCH NEEDS; *SCIENTIFIC RESEARCH; BUDGETING; ENERGY; FEDERAL GOVERNMENT; HEALTH; NATIONAL DEFENSE
 ISSUE: CIJEABST
 ABSTRACT: SUMMARIZES THE RESEARCH AND DEVELOPMENT EFFORTS INVOLVED IN THE 1975 ANNUAL FEDERAL BUDGET PROPOSALS, INCLUDING DESCRIPTIONS OF PRIORITY NATIONAL NEEDS AND FUNDING OF RESEARCH PROGRAMS. INCLUDED ARE STATISTICS OF ACTUAL AND ESTIMATED EXPENSES FOR THE PERIOD FROM 1973 THROUGH 1975. (CC)
 JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 52; 7; 13-16

ACCESSION NUMBER: EJ095282
 CLEARINGHOUSE ACCESSION NUMBER: SE510889
 PUBLICATION DATE: MAR 74
 TITLE: ENVIRONMENTAL IMPACT OF LMFBR'S ASSESSED
 DESCRIPTOR: *ENVIRONMENT; *NATURAL RESOURCES; *PREDICTION; *RADIATION EFFECTS; ECONOMICS; NUCLEAR PHYSICS; RADIOISOTOPES; TECHNOLOGY; *ENERGY REQUIREMENTS
 ISSUE: CIJEABST
 ABSTRACT: SUMMARIZES SOME ASPECTS OF THE ENVIRONMENTAL IMPACT DRAFT STATEMENT PREPARED TO ASSESS THE FEASIBILITY OF LIQUID-METAL FAST-BREEDER REACTORS IN COMMERCIAL POWER GENERATION. (CC)
 JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 52; 12; 21-22

ACCESSION NUMBER: EJ096769
 CLEARINGHOUSE ACCESSION NUMBER: SE510711
 PUBLICATION DATE: MAR 74
 TITLE: PLUTONIUM AND THE "HOT PARTICLE PROBLEM": ENVIRONMENTAL GROUP PROPOSES A DRACONIAN ANSWER
 DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *HEALTH; *RADIATION; *RADIATION EFFECTS; ENERGY; ENVIRONMENT; ENVIRONMENTAL EDUCATION; POLLUTION; RADIATION BIOLOGY; *PLUTONIUM
 ISSUE: CIJEABST
 JOURNAL CITATION: SCIENCE; 183; 4127; 834-845

ACCESSION NUMBER: EJ096777
 CLEARINGHOUSE ACCESSION NUMBER: SE510797
 PUBLICATION DATE: MAR 74
 TITLE: THE ECONOMICS OF RESOURCE RECOVERY FROM MUNICIPAL SOLID WASTE
 PERSONAL AUTHOR: ABERT, JAMES G.; AND OTHERS
 DESCRIPTOR: *COST EFFECTIVENESS; *ECONOMIC FACTORS; *RECYCLING; *RESOURCES; *WASTES; COSTS; ENERGY; ENVIRONMENTAL EDUCATION; WASTE DISPOSAL
 ISSUE: CIJEABST
 ABSTRACT: DESCRIBES THE COMPOSITION OF HOUSEHOLD REFUSE AND ANALYSES THE ECONOMIC CONSIDERATIONS INVOLVED IN RECOVERING USABLE MATERIAL AND ENERGY RESOURCES FROM URBAN SOLID WASTE. (JR)
 JOURNAL CITATION: SCIENCE; 183; 4129; 1052-1058

ACCESSION NUMBER: EJ096797
CLEARINGHOUSE ACCESSION NUMBER: SE510846
PUBLICATION DATE: MAR 74
TITLE: HAS CONSIDERS ENERGY CRISIS
DESCRIPTOR: *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *FUTURES (OF SOCIETY); *POLLUTION; ENERGY; ENVIRONMENT; NATURAL RESOURCES; PROBLEMS; *ENERGY CRISIS; NATIONAL ACADEMY OF SCIENCES
ISSUE: CIJEABST
ABSTRACT: REPORTS THE KEY ISSUES DISCUSSED AT A NATIONAL TWO-DAY FORUM OF THE NATIONAL ACADEMY OF SCIENCES HELD IN WASHINGTON, D.C. THE SYMPOSIUM SOUGHT ANSWERS TO PROBLEMS BROUGHT ON BY THE ENERGY CRISIS AND FOCUSED ON FUTURE ALTERNATIVES AND RISKS. (JR)
JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 8; 3: 204-205

ACCESSION NUMBER: EJ096827
CLEARINGHOUSE ACCESSION NUMBER: SE510974
PUBLICATION DATE: APR 74
TITLE: ENERGY EXPERTS CALL FOR CONSERVATION STEPS
DESCRIPTOR: *CONSERVATION EDUCATION; *DEPLETED RESOURCES; *ECONOMIC FACTORS; *ENERGY; *SUPPLIES; ENVIRONMENTAL CRITERIA; FUELS; NATURAL RESOURCES; ENERGY REQUIREMENTS
ISSUE: CIJEABST
ABSTRACT: SUMMARIZES ENERGY CONSERVATION MEASURES SUGGESTED BY A LEADING ENERGY SUPPLIER, A LEADING ENERGY CONSUMER, AND A TOP GOVERNMENT OFFICIAL, INVOLVING MORE COAL USE AS AN ENERGY RESOURCE AND AN ADEQUATE BALANCE BETWEEN ENERGY SUPPLY AND ENVIRONMENTAL RESTRICTIONS. (CC)
JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 52; 13; 8-9

ACCESSION NUMBER: EJ096885
CLEARINGHOUSE ACCESSION NUMBER: SE511084
PUBLICATION DATE: APR 74
TITLE: GOVERNMENT ENERGY POLICY COMES UNDER ATTACK
DESCRIPTOR: *DEPLETED RESOURCES; *ENERGY; *FUELS; *NATURAL RESOURCES; *POLICY FORMATION; FUEL CONSUMPTION; GOVERNMENT ROLE; REPORTS; ENERGY REQUIREMENTS
ISSUE: CIJEABST
ABSTRACT: SUMMARIZES THE REPORT PREPARED BY THE FORD FOUNDATION'S ENERGY PROJECT WITH EMPHASES UPON THREE ENERGY GROWTH PROJECTS THROUGHOUT THE YEAR 2000, INVOLVING EXPANDING RATHER THAN CONSERVING ENERGY SUPPLIES, CREATION OF A "CENTRALIZED GOVERNMENTAL ENERGY DATA BANK" AND ESTABLISHING THE PHILOSOPHY OF AN "ENOUGH IS BEST" APPROACH TO ENERGY NEEDS. (CC)
JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 52; 15; 9

ACCESSION NUMBER: EJ096886
CLEARINGHOUSE ACCESSION NUMBER: SE511085
PUBLICATION DATE: APR 74
TITLE: POTENTIAL ENERGY SOURCES POSE MINING PROBLEM
DESCRIPTOR: *ENERGY; *INDUSTRIAL TECHNOLOGY; *NATURAL RESOURCES; *SYMPOSIUM; DEPLETED RESOURCES; ENGINEERING TECHNOLOGY; FUELS; PRODUCTION TECHNIQUES
ISSUE: CIJEABST
ABSTRACT: SUMMARIZES THE DISCUSSIONS OF A DIVISION OF INDUSTRIAL AND ENGINEERING CHEMISTRY SYMPOSIUM ON SOLIDS HANDLING FOR SYNTHETIC FUELS PRODUCTION. INCLUDED IS A DESCRIPTION OF TECHNICAL DIFFICULTIES WITH THE USE OF COAL SEAMS AND DEPOSITS OF OIL SHALE AND OIL SAND AS POTENTIAL SOURCES OF FUEL. (CC)
JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 52; 15; 16-17

ACCESSION NUMBER: EJ096903
CLEARINGHOUSE ACCESSION NUMBER: SE511123
PUBLICATION DATE: APR 74
TITLE: STUDY TAKES HARD LOOK AT ENERGY REGULATION
DESCRIPTOR: *ENERGY; *FEDERAL STATE RELATIONSHIP; *FUELS; *LAW; ADMINISTRATION; EVALUATION; GOVERNMENT (ADMINISTRATIVE BODY); GOVERNMENT ROLE; REPORTS
ISSUE: CIJEABST
ABSTRACT: SUMMARIZES THE REPORT OF A PRESIDENTIALLY COMMISSIONED STUDY TEAM ON DEFICIENCIES IN THE GOVERNMENT'S ENERGY-RELATED REGULATORY ACTIVITIES. RECOMMENDS CREATION OF FOUR NEW FEDERAL OFFICES INCLUDING A CENTRALIZED ENERGY DATA OFFICE, AND A COORDINATIVE APPROACH TO ISSUES OF FEDERAL-STATE-LOCAL RELATIONSHIPS IN THE SITTING AND LICENSING OF ENERGY FACILITIES. (CC)
JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 52; 16; 26

ACCESSION NUMBER: EJ097881
CLEARINGHOUSE ACCESSION NUMBER: EA504989
PUBLICATION DATE: JUN 74
TITLE: COMPUTER REVIEW CAN CUT HVAC ENERGY USE
PERSONAL AUTHOR: MCCLURE, CHARLES J. R.
DESCRIPTOR: *COMPUTER ORIENTED PROGRAMS; *FUEL CONSUMPTION; *BUILDING DESIGN; *EDUCATIONAL ADMINISTRATION; *ENERGY CONSERVATION; DESIGN NEEDS; LIGHTING; VENTILATION; HEATING; AIR CONDITIONING
ISSUE: CIJEABST
ABSTRACT: A COMPUTERIZED REVIEW OF CONSTRUCTION BIDDING DOCUMENTS, USUALLY DONE BY A CONSULTING ENGINEER, CAN REVEAL HOW MUCH MONEY IT WILL COST TO OPERATE VARIOUS ALTERNATIVE TYPES OF HVAC EQUIPMENT OVER A SCHOOL'S LIFETIME. THE REVIEW SHOULD INCLUDE A COMPUTERIZED LOAD CALCULATION, ENERGY SYSTEMS "LOW DIAGRAM, CONTROL SYSTEM ANALYSIS, AND A COMPUTERIZED BUILDING ENERGY CONSUMPTION CALCULATION. (AUTHOR/DN)
JOURNAL CITATION: NATION'S SCHOOLS; 93; 6; 57-59

ACCESSION NUMBER: FJ098137
CLEARINGHOUSE ACCESSION NUMBER: IR500423
PUBLICATION DATE: MAY 1 74
TITLE: THE ENERGY CRUNCH: A SELECTIVE REVIEW OF RECENT U.S. GOVERNMENT PUBLICATIONS WHICH OFFER FUEL FOR THOUGHT ON THE ENERGY CRISIS
PERSONAL AUTHOR: DINSMORE, *JOHN H.
DESCRIPTOR: *ENERGY; *FUELS; *GOVERNMENT PUBLICATIONS; *LITERATURE REVIEWS; NATURAL RESOURCES; *ENERGY CRISIS; CONSERVATION
ISSUE: CIJEABST
JOURNAL CITATION: LIBRARY JOURNAL; 99; 9; 1270-3

ACCESSION NUMBER: FJ098142
CLEARINGHOUSE ACCESSION NUMBER: IR500428
PUBLICATION DATE: MAY 15 74
TITLE: ENVIRONMENT UPDATE: A REVIEW OF ENVIRONMENTAL MATERIALS AND DEVELOPMENTS
PERSONAL AUTHOR: STEHL, GEORGE
DESCRIPTOR: *ECOLOGY; *ENERGY; *ENVIRONMENT; *LIBRARY MATERIALS; BOOKS; LITERATURE REVIEWS; REFERENCE MATERIALS; ANNOTATED BIBLIOGRAPHIES
ISSUE: CIJEABST
JOURNAL CITATION: LIBRARY JOURNAL; 99; 10; 1357-63

ACCESSION NUMBER: EJ098235
CLEARINGHOUSE ACCESSION NUMBER: JC500745
PUBLICATION DATE: W 73
TITLE: SOME EDUCATIONAL PARAMETERS FOR THE ENERGY EQUATION: A CASE STUDY
PERSONAL AUTHOR: ALEY, TILGHMAN H.; REITZ, RICHARD
DESCRIPTOR: *COMMUNITY COLLEGES; *CASE STUDIES (EDUCATION); *EDUCATIONAL OBJECTIVES; *TECHNOLOGICAL ADVANCEMENT; PROGRAM PLANNING; EDUCATIONAL NEEDS; ENVIRONMENTAL EDUCATION; *ENERGY INSTITUTE
ISSUE: CIJEABST
ABSTRACT: THIS CASE STUDY RELATES HOW CASPER COLLEGE IN WYOMING RESPONDED CREATIVELY TO THE PROSPECT OF AN ENDOWMENT AND EVOLVED THE PLANS FOR AN ENVIRONMENTALLY RELEVANT ENERGY INSTITUTE. (EDITOR)
JOURNAL CITATION: NEW DIRECTIONS FOR COMMUNITY COLLEGES; 1; 4; 19-23

ACCESSION NUMBER: EJ098453
CLEARINGHOUSE ACCESSION NUMBER: SE511011
PUBLICATION DATE: APR 74
TITLE: ENERGY: FUTURE ALTERNATIVES AND RISKS - NATIONAL ACADEMY OF SCIENCES FINDS THERE ARE MANY OF BOTH
PERSONAL AUTHOR: HAWKINS, MARY E.
DESCRIPTOR: *CONFERENCE REPORTS; *ENERGY; *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *FUTURES (OF SOCIETY); ENVIRONMENT; NATURAL RESOURCES; SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; NATIONAL ACADEMY OF SCIENCES
ISSUE: CIJEABST
ABSTRACT: REPORTS THE MAJOR CONCERNS EXPRESSED AT A TWO-DAY FORUM ON ENERGY SPONSORED BY THE NATIONAL ACADEMY OF SCIENCES. (JR)
JOURNAL CITATION: SCIENCE TEACHER; 41; 4; 25-27

ACCESSION NUMBER: EJ098473
 CLEARINGHOUSE ACCESSION NUMBER: SE511122
 PUBLICATION DATE: APR 74
 TITLE: FOOD-RELATED ENERGY REQUIREMENTS
 PERSONAL AUTHOR: HIRST, ERIC
 DESCRIPTOR: *ENERGY; *FOOD; NATURAL RESOURCES; SCIENCE EDUCATION; *FOOD CONSUMPTION; FOOD PROCESSING
 ISSUE: CIJEABST
 ABSTRACT: PRESENTS A DISCUSSION OF THE QUANTITIES OF ENERGY REQUIRED TO GROW, PROCESS, TRANSPORT, WHOLESAL, RETAIL, REFRIGERATE, AND COOK FOOD IN THE UNITED STATES FOR THE YEAR 1963. THESE DATA ARE ALSO USED TO ESTIMATE THE ANNUAL ENERGY CONSUMPTION FOR FOOD FOR THE 1960-1970 PERIOD. (PEB)
 JOURNAL CITATION: SCIENCE; 184; 4133; 134-138

ACCESSION NUMBER: EJ098535
 CLEARINGHOUSE ACCESSION NUMBER: SE511236
 PUBLICATION DATE: MAR 74
 TITLE: A DOUBLE-BARRELED CHALLENGE FOR SCIENCE EDUCATION
 PERSONAL AUTHOR: DOUGLAS, JOHN H.
 DESCRIPTOR: *EDUCATIONAL FINANCE; *SCIENCE EDUCATION; *SCIENTIFIC MANPOWER; *SCIENTIFIC PERSONNEL; FINANCIAL SUPPORT; SCIENTIFIC LITERACY; SCIENTISTS; TEACHER EDUCATION; *NATIONAL SCIENCE FOUNDATION; ENERGY CRISIS
 ISSUE: CIJEABST
 ABSTRACT: DISCUSSES THE IMPLICATIONS OF THE ENERGY CRISIS AND CHANGING PRIORITIES OF THE NATIONAL SCIENCE FOUNDATION FOR SCIENCE EDUCATION IN THE UNITED STATES. (JN)
 JOURNAL CITATION: SCIENCE NEWS; 105; 9; 136-138

ACCESSION NUMBER: EJ098570
 CLEARINGHOUSE ACCESSION NUMBER: SE511320
 PUBLICATION DATE: MAY/JUN 74
 TITLE: SUPER SPOOL: AN EXPERIMENT IN POWERPLANT DESIGN
 PERSONAL AUTHOR: KESLER, RONALD
 DESCRIPTOR: *DEMONSTRATIONS (EDUCATIONAL); *ENERGY; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY EXPERIMENTS; ELEMENTARY SCHOOL SCIENCES; GENERAL SCIENCE; SCIENCE ACTIVITIES; SCIENCE EDUCATION; TEACHER DEVELOPED MATERIALS
 ISSUE: CIJEABST
 ABSTRACT: DISCUSSES THE USE OF RUBBERBANDS, AN EMPTY WOODEN THREAD SPOOL, TWO WOODEN MATCHES, A WAX WASHER, AND A SMALL NAIL TO CONDUCT AN EXPERIMENT OR DEMONSTRATION IN POWERPLANT DESIGN. DETAILED PROCEDURES AND SUGGESTED ACTIVITIES ARE INCLUDED. (CC)
 JOURNAL CITATION: SCIENCE ACTIVITIES; 20-21

ACCESSION NUMBER: EJ098583
 CLEARINGHOUSE ACCESSION NUMBER: SE511414
 PUBLICATION DATE: MAY 74
 TITLE: ENERGY STORAGE (II): DEVELOPING ADVANCED TECHNOLOGIES
 PERSONAL AUTHOR: ROBINSON, ARTHUR L
 DESCRIPTOR: *ENERGY; *RESEARCH NEEDS; *SCIENTIFIC RESEARCH; *TECHNOLOGY; NATURAL RESOURCES; RESEARCH PROBLEMS; MAGNETIC STORAGE; THERMAL STORAGE
 ISSUE: CIJEABST
 ABSTRACT: ENERGY STORAGE, CONSIDERED BY SOME SCIENTISTS TO BE THE BEST TECHNOLOGICAL AND ECONOMIC ADVANCEMENT AFTER ADVANCED NUCLEAR POWER, STILL RAISES ONLY MODEST FUNDING FOR RESEARCH CONCERNING THE DEVELOPMENT OF ADVANCED TECHNOLOGIES. (PEB)
 JOURNAL CITATION: SCIENCE; 184; 4139; 884-887

ACCESSION NUMBER: EJ098721
 CLEARINGHOUSE ACCESSION NUMBER: U0502931
 PUBLICATION DATE: APR 74
 TITLE: NATIVE MINORITIES AND ETHNIC CONFLICT IN CANADA
 PERSONAL AUTHOR: ELLIOTT, JEAN LEONARD
 DESCRIPTOR: *MINORITY GROUPS; *DEVELOPMENT; *WATER RESOURCES; *INDIANS; ENERGY; CULTURE CONFLICT; ECOLOGY; ENVIRONMENT; NATURAL RESOURCES
 ISSUE: CIJEABST
 ABSTRACT: PLACES THE ISSUE OF THE JAMES BAY PROJECT FOR THE DEVELOPMENT OF HYDROELECTRIC POWER IN A HISTORICAL AND POLITICAL PERSPECTIVE AND DISCUSSES ITS EFFECTS UPON THE INDIANS OF QUEBEC. (SF)
 JOURNAL CITATION: CURRENT HISTORY; 66; 392; 177-181

ACCESSION NUMBER: EJ098911
 CLEARINGHOUSE ACCESSION NUMBER: CE501233
 PUBLICATION DATE: JUN 74
 TITLE: THIRTY-ONE FUEL CRISIS RESPONSES FOR ADULT HIGHER EDUCATION TO MEET CONSUMER (STUDENT) NEEDS
 PERSONAL AUTHOR: LOCH, JOHN R.
 DESCRIPTOR: *EDUCATIONAL PROBLEMS; *ADULT STUDENTS; *STUDENT NEEDS; *ENERGY CONSERVATION; *FUEL CONSUMPTION; HIGHER EDUCATION; EVENING CLASSES
 ISSUE: CIJEABST
 ABSTRACT: THIRTY-ONE SUGGESTIONS AIMED AT REDUCING STUDENT ENERGY CRISIS PROBLEMS ARE LISTED FOR INSTITUTIONS OFFERING DEGREE AND NON-CREDIT PROGRAMS FOR ADULTS, TO MAKE IT EASIER FOR STUDENTS TO CONTINUE THEIR PROGRAMS. THE SUGGESTIONS COVER TRANSPORTATION; SCHEDULING; COURSE DELIVERY; ADMISSION; REGISTRATION; AND ADVISING; AND PAYMENT PROCEDURES. (AG)
 JOURNAL CITATION: ADULT LEADERSHIP; 23; 2; 53-4

ACCESSION NUMBER: EJ099435
 CLEARINGHOUSE ACCESSION NUMBER: EA505063
 PUBLICATION DATE: JUN 74
 TITLE: WHAT ARE YOU DOING ABOUT THE ENERGY CRISIS?
 DESCRIPTOR: *ENERGY CONSERVATION; *SCHOOL MAINTENANCE; FUEL CONSUMPTION; BUS TRANSPORTATION; FACILITIES; SURVEYS; SCHOOL DISTRICTS
 ISSUE: CIJEABST
 ABSTRACT: RESULTS OF A SURVEY OF SELECTED SCHOOL DISTRICTS. (JP)
 JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS; 40; 6; 148-150

ACCESSION NUMBER: EJ099437
 CLEARINGHOUSE ACCESSION NUMBER: EA505065
 PUBLICATION DATE: JUN 74
 TITLE: SELECTIVE ENERGY FEASIBILITY STUDY -- RICHMOND COLLEGE, CITY UNIVERSITY OF NEW YORK
 DESCRIPTOR: *ENERGY CONSERVATION; *SYSTEMS DEVELOPMENT; *ELECTRICAL SYSTEMS; *UTILITIES; *INTERINSTITUTIONAL COOPERATION; UNIVERSITIES
 ISSUE: CIJEABST
 ABSTRACT: A STUDY OF THE PRESENTLY AVAILABLE DATA ON MAGNITUDE, DURATION, AND COINCIDENCE OF ELECTRICAL DEMANDS DETERMINED THAT ON-SITE ELECTRICAL POWER GENERATION IN THE FORM OF A SELECTIVE ENERGY SYSTEM SHOULD BE INCORPORATED WITHIN THE CENTRAL UTILITIES PLANT PROJECTED FOR THE RICHMOND COLLEGE CAMPUS OF THE CITY UNIVERSITY OF NEW YORK (CUNY). (AUTHOR/MLP)
 JOURNAL CITATION: CONSULTING ENGINEER; 42; 6; 84-85

ACCESSION NUMBER: EJ099448
 CLEARINGHOUSE ACCESSION NUMBER: EA505076
 PUBLICATION DATE: JUL 74
 TITLE: 17 WAYS TO BUILD FOR AN ENERGY-SCARCE FUTURE. SPECIAL REPORT: PLANNING THE PHYSICAL ENVIRONMENT
 DESCRIPTOR: *SCHOOL DESIGN; *BUILDING DESIGN; *COST EFFECTIVENESS; *SCHOOL PLANNING; *ENERGY CONSERVATION; SCHOOL BUILDINGS; FUEL CONSUMPTION; BUILDING CONVERSION; FACILITY PLANNING
 ISSUE: CIJEABST
 ABSTRACT: PRESENTS 17 DESIGN IDEAS TO HARNESS MAN-MADE MATERIALS, THE SUN, WIND, AND EVEN THE EARTH TO CONSERVE ENERGY IN NEW OR REMODELED BUILDINGS. (AUTHOR)
 JOURNAL CITATION: NATION'S SCHOOLS; 94; 1; 19-30

ACCESSION NUMBER: EJ100022
 CLEARINGHOUSE ACCESSION NUMBER: SE510977
 PUBLICATION DATE: APR 74
 TITLE: THE ENERGY CRISIS: IS IT FABRICATION OR MISCALCULATION?
 PERSONAL AUTHOR: SHAHEEN, ESBER I.
 DESCRIPTOR: *ECOLOGY; *ENERGY; *FUEL CONSUMPTION; *NATURAL RESOURCES; *TECHNOLOGY; ENVIRONMENTS; TECHNOLOGICAL ADVANCEMENT; ENERGY SOURCES
 ISSUE: CIJEABST
 ABSTRACT: ISSUES SURROUNDING THE RECENT OIL SHORTAGES ARE DISCUSSED AND ALTERNATE SOURCES REVIEWED ARE NUCLEAR POWER, FUSION, SOLAR ENERGY, GEOTHERMAL ENERGY, MAGNETOHYDRODYNAMICS COAL GASIFICATION, WINDMILLS AND TIDAL POWER. (JP)
 JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 8; 4; 316-320

ACCESSION NUMBER: EJ100026
CLEARINGHOUSE ACCESSION NUMBER: SE510997
PUBLICATION DATE: APR 74
TITLE: ENVIRONMENTAL HAZARDS OF NUCLEAR WASTES
PERSONAL AUTHOR: WICKLIN, PHILIP P.
DESCRIPTOR: *ENVIRONMENT; *ENERGY; *NUCLEAR PHYSICS; *WASTE DISPOSAL; RADIATION; WASTES; *NUCLEAR WASTES
ISSUE: CIJEABST
ABSTRACT: PRESENT METHODS FOR STORAGE OF RADIOACTIVE WASTES PRODUCED AT NUCLEAR POWER FACILITIES ARE DESCRIBED. PROBLEMS ARISING FROM PRESENT WASTE MANAGEMENT ARE DISCUSSED AND POTENTIAL SOLUTIONS EXPLORED. (JP)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30; 4; 36-42

ACCESSION NUMBER: EJ100132
CLEARINGHOUSE ACCESSION NUMBER: SE511406
PUBLICATION DATE: MAY 74
TITLE: AN ENERGY CRISIS COURSE FOR ENGINEERING STUDENTS
PERSONAL AUTHOR: MUNN, BRUCE D.
DESCRIPTOR: *COLLEGE CURRICULUM; *COURSE DESCRIPTIONS; *CURRICULUM; *ENGINEERING EDUCATION; *ENVIRONMENTAL EDUCATION; ENERGY; HIGHER EDUCATION; INSTRUCTION; PROGRAM DESCRIPTIONS
ISSUE: CIJEABST
ABSTRACT: A COURSE RELATING TO ENERGY AND THE ENVIRONMENT AND AIMED SPECIFICALLY AT ENGINEERING STUDENTS IS OUTLINED. COURSE OBJECTIVES, FORMAT, AND CONTENT ARE SPECIFIED; REQUIRED PROBLEM SETS, PAPERS, AND EXAMS ARE BRIEFLY DISCUSSED. (DT)
JOURNAL CITATION: ENGINEERING EDUCATION; 64; 8; 580-583

ACCESSION NUMBER: EJ100136
CLEARINGHOUSE ACCESSION NUMBER: SE511465
PUBLICATION DATE: JUN 74
TITLE: THE QUALITY OF GROWTH
PERSONAL AUTHOR: TRAIN, RUSSELL E.
DESCRIPTOR: *DEVELOPMENT; *ENERGY CONSERVATION; *ENVIRONMENT; *LIVING STANDARDS; *NATURAL RESOURCES; ECONOMIC DEVELOPMENT; ENERGY; ENVIRONMENTAL EDUCATION; POPULATION GROWTH
ISSUE: CIJEABST
JOURNAL CITATION: SCIENCE; 184; 4141; 1050-1053

ACCESSION NUMBER: EJ101461
CLEARINGHOUSE ACCESSION NUMBER: SE511396
PUBLICATION DATE: MAY 74
TITLE: WORLD ENERGY STRATEGIES
PERSONAL AUTHOR: LOVINS, AMORY B.
DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS; *NATURAL RESOURCES; *WORLD PROBLEMS; DEPLETED RESOURCES; FUEL CONSUMPTION; SCIENCE EDUCATION
ISSUE: CIJEABST
ABSTRACT: EXAMINES POSSIBLE ENERGY OPTIONS AND OUTLINES ASSESSMENTS AND CONCLUSIONS INFLUENCING RECENT TOP LEVEL ENERGY THINKING AND PLANNING. INDICATES THAT NO NATION ON EARTH APPEARS TO HAVE EITHER A COHERENT LONG-RANGE ENERGY STRATEGY OR THE INSTITUTIONS NEEDED TO DEVISE ONE. (JR)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30; 5; 16-32

ACCESSION NUMBER: EJ101462
CLEARINGHOUSE ACCESSION NUMBER: SE511397
PUBLICATION DATE: MAY 74
TITLE: THE NEED FOR A LONG-TERM POLICY
PERSONAL AUTHOR: ANTHROP, DONALD P.
DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *FEDERAL GOVERNMENT; *POLICY; ENVIRONMENT; FUELS; FUEL CONSUMPTION; NATURAL RESOURCES; SCIENCE EDUCATION
ISSUE: CIJEABST
ABSTRACT: CRITICIZES THE ENERGY POLICIES OF THE NIXON ADMINISTRATION, CLAIMING THAT THEY TEND TO PERPETUATE THE WASTEFUL TRENDS OF THE PAST AND ACCELERATE DEGRADATION OF THE ENVIRONMENT. (JR)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30; 5; 33-38

ACCESSION NUMBER: EJ101463
CLEARINGHOUSE ACCESSION NUMBER: SE511398
PUBLICATION DATE: MAY 74
TITLE: MORE ENERGY AT WHAT PRICE?
PERSONAL AUTHOR: FELD, BERNARD T.
DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS; *FUTURES (OF SOCIETY); *NATURAL RESOURCES; ECOLOGICAL FACTORS; ENVIRONMENT; FUEL CONSUMPTION; SCIENCE EDUCATION
ISSUE: CIJEABST
ABSTRACT: EXAMINES SOME OF THE OPTIONS AVAILABLE FOR SATISFYING FUTURE ENERGY DEMANDS AND DISCUSSES THE CONSEQUENCES OF DEVELOPING THE VARIOUS ENERGY SOURCES. (JR)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30; 5; 39-41

ACCESSION NUMBER: EJ101519
CLEARINGHOUSE ACCESSION NUMBER: SE511527
PUBLICATION DATE: JUN 74
TITLE: THE CASE FOR LONG-TERM PLANNING
PERSONAL AUTHOR: LOVINS, AMORY B.
DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *SCIENCE EDUCATION; RESOURCES
ISSUE: CIJEABST
ABSTRACT: THIS SECOND ARTICLE OF A TWO-PART SERIES EXAMINES ENERGY SOURCES OTHER THAN THE PRINCIPAL SOURCES CURRENTLY IN USE AND DISCUSSES THE NEED FOR EARLY DEVELOPMENT OF SOUND ENERGY STRATEGIES LOOKING BEYOND THE MID-1980'S. FOR THE FIRST ARTICLE, SEE THE MAY, 1974 ISSUE. (DT)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30; 6; 38-50

ACCESSION NUMBER: EJ101539
CLEARINGHOUSE ACCESSION NUMBER: SE511568
PUBLICATION DATE: JUN 74
TITLE: REPORT ON THE SECOND APCA GOVERNMENT AFFAIRS SEMINAR
PERSONAL AUTHOR: BEERY, WILLIAMINA T.
DESCRIPTOR: *AIR POLLUTION CONTROL; *ENERGY; *ENVIRONMENTAL EDUCATION; FUEL CONSUMPTION; GOVERNMENT ROLE; LEGISLATION; TRANSPORTATION
ISSUE: CIJEABST
ABSTRACT: CONDENSED VERSIONS OF PREPARED STATEMENTS SUBMITTED BY PARTICIPANTS IN A SEMINAR ON AIR POLLUTION CONTROL ARE PRESENTED. TOPICS ARE ORGANIZED UNDER THE AREAS OF TRANSPORTATION, HEAT AND POWER, ROLE OF THE COURTS, AND FUTURE FEDERAL LEGISLATIVE NEEDS. (DT)
JOURNAL CITATION: JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION; 24; 6; 542-550

ACCESSION NUMBER: EJ101599
CLEARINGHOUSE ACCESSION NUMBER: SE511635
PUBLICATION DATE: JUL 74
TITLE: A METRIC (S) ENERGY SCALE: CONVERSIONS AND COMPARISONS
PERSONAL AUTHOR: PETRAKIS, L.
DESCRIPTOR: *ENERGY; *MEASUREMENTS; *METRIC SYSTEM; *REFERENCE MATERIALS; *SCIENCES; SCIENCE EDUCATION
ISSUE: CIJEABST
ABSTRACT: AN ENERGY SCALE, CONSTRUCTED IN TERMS OF THE JOULE, IS PRESENTED. IT PROVIDES FOR THE CONVERSION OF ALL TRADITIONAL UNITS EMPLOYED IN ENGINEERING, SCIENCE, AND TECHNOLOGY TO DESCRIBE FORMS OF ENERGY; GIVES THE ENERGY ASSOCIATED WITH PHYSICAL PHENOMENA; AND PROVIDES ENERGY EQUIVALENTS OF QUANTITIES ASSOCIATED WITH VARIOUS ENERGY SOURCES. (DT)
JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 51; 7; 459

ACCESSION NUMBER: EJ101639
CLEARINGHOUSE ACCESSION NUMBER: SE511733
PUBLICATION DATE: JUL 74
TITLE: WATER USE FOR ENERGY DEVELOPMENT SURVEYED
DESCRIPTOR: *ENERGY; *ENVIRONMENT; *TECHNOLOGICAL ADVANCEMENT; *WATER RESOURCES; SCIENCES; TECHNOLOGY
ISSUE: CIJEABST
JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 52; 29; 17

ACCESSION NUMBER: EJ102162
CLEARINGHOUSE ACCESSION NUMBER: CE501466
PUBLICATION DATE: AUG 74

TITLE: EMPLOYMENT AND UNEMPLOYMENT DURING THE FIRST HALF OF 1974

PERSONAL AUTHOR: FLAHER, PAUL O.

DESCRIPTOR: *EMPLOYMENT STATISTICS; *UNEMPLOYMENT; *JOB LAYOFF; *ECOLOGICAL FACTORS; *ENERGY; LABOR MARKET; LABOR PROBLEMS; EMPLOYMENT LEVEL; LABOR ECONOMICS; ECONOMIC FACTORS

ABSTRACT: AFTER A BRIEF INCREASE, JOBLESSNESS REMAINED NEAR FIVE PERCENT AS ENERGY-RELATED LAYOFFS WERE ACCOMPANIED BY A HALT IN GROWTH OF THE LABOR FORCE. (AUTHOR)

JOURNAL CITATION: MONTHLY LABOR REVIEW; 97; 8: 3-7

ACCESSION NUMBER: EJ102163

CLEARINGHOUSE ACCESSION NUMBER: CE501467

PUBLICATION DATE: AUG 74

TITLE: EFFECT OF THE ENERGY CRISIS ON EMPLOYMENT

PERSONAL AUTHOR: EARLY, JOHN F.

DESCRIPTOR: *EMPLOYMENT STATISTICS; *UNEMPLOYMENT; *EMPLOYMENT LEVEL; *ECOLOGICAL FACTORS; *ENERGY; LABOR MARKET; LABOR PROBLEMS; JOB LAYOFF; LABOR ECONOMICS; ECONOMIC FACTORS

ABSTRACT: ANALYSIS OF EMPLOYMENT DATA DURING THE FOUR-MONTH ENERGY CRISIS SHOWS SLOWDOWN IN EMPLOYMENT DIFFERED MARKEDLY FROM OTHER RECENT SLOWDOWNS. (AUTHOR)

JOURNAL CITATION: MONTHLY LABOR REVIEW; 97; 8: 9-16

ACCESSION NUMBER: EJ102262

CLEARINGHOUSE ACCESSION NUMBER: CE501581

PUBLICATION DATE: F 74

TITLE: JOBS IN THE ATOMIC ENERGY FIELD

DESCRIPTOR: *NUCLEAR PHYSICS; *TECHNICAL OCCUPATIONS; *EMPLOYMENT TRENDS; OCCUPATIONAL INFORMATION; PROFESSIONAL OCCUPATIONS; JOB MARKET; OCCUPATIONAL SURVEYS; *ATOMIC ENERGY OCCUPATIONS

ABSTRACT: ACCORDING TO A RECENT GOVERNMENT SURVEY, EMPLOYMENT IN PRIVATELY-OWNED ATOMIC ENERGY FACILITIES NOW EXCEEDS EMPLOYMENT IN GOVERNMENT FACILITIES. IN THIS FIELD, ENGINEERS, SCIENTISTS, TECHNICIANS, AND CRAFT WORKERS ACCOUNT FOR THE HIGHEST PROPORTION OF TOTAL EMPLOYMENT. (RM)

JOURNAL CITATION: OCCUPATIONAL OUTLOOK QUARTERLY; 18; 3: 30

ACCESSION NUMBER: EJ102521

CLEARINGHOUSE ACCESSION NUMBER: EA505098

PUBLICATION DATE: JUL 74

TITLE: WAYS TO STRETCH YOUR UTILITIES BUDGET

PERSONAL AUTHOR: GARDNER, JOHN C.

DESCRIPTOR: *UTILITIES; *SCHOOL MAINTENANCE; *COST EFFECTIVENESS; *ENERGY CONSERVATION; *GUIDES

ABSTRACT: POINTS OUT WHAT TO DO IN EXISTING BUILDINGS TO TAKE SOME OF THE "ELECTRIC SHOCK" OUT OF THE MONTHLY BILL. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46; 11: 10-11

ACCESSION NUMBER: EJ102523

CLEARINGHOUSE ACCESSION NUMBER: EA505100

PUBLICATION DATE: JUL 74

TITLE: FOUR SCHOOLS PUT SOLAR HEATING TO THE TEST

DESCRIPTOR: *SOLAR RADIATION; *ENERGY CONSERVATION; *EXPERIMENTS; *HEATING; *PERFORMANCE CRITERIA; HIGH SCHOOLS; JUNIOR HIGH SCHOOLS; ELEMENTARY SCHOOLS

ABSTRACT: THE NATIONAL SCIENCE FOUNDATION HAS AWARDED FOUR COMPANIES OVER A MILLION DOLLARS TO CARRY OUT SOLAR ENERGY SPACE-HEATING EXPERIMENTS AT DIFFERENT SCHOOLS IN MASSACHUSETTS, MINNESOTA, MARYLAND, AND VIRGINIA. (NLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46; 11: 17-21

ACCESSION NUMBER: EJ102525

CLEARINGHOUSE ACCESSION NUMBER: EA505102

PUBLICATION DATE: JUL 74

TITLE: COMPUTER-CONTROLLED HVAC -- AT LOW COST

DESCRIPTOR: *EQUIPMENT MAINTENANCE; *PERFORMANCE SPECIFICATIONS; *AUTOMATION; *CLIMATE CONTROL; *COMPUTER ORIENTED PROGRAMS; COMPUTER PROGRAMS; ENERGY CONSERVATION; HIGH SCHOOLS

ABSTRACT: BY TYING INTO A COMPUTERIZED BUILDING-AUTOMATION NETWORK, SCHAMBERG HIGH SCHOOL, ILLINOIS, SLASHED ITS ENERGY CONSUMPTION BY ONE-THIRD. THE REMOTELY CONNECTED COMPUTER CONTROLS THE MECHANICAL SYSTEM FOR THE HIGH SCHOOL AS WELL AS OTHER BUILDINGS IN THE COMMUNITY, WITH THE COST BEING SHARED BY ALL. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46; 11: 24-26

ACCESSION NUMBER: EJ102526

CLEARINGHOUSE ACCESSION NUMBER: EA505103

PUBLICATION DATE: JUL 74

TITLE: ENERGY-SAVING DESIGNS FOR BUILDINGS

DESCRIPTOR: *ENERGY CONSERVATION; *BUILDING DESIGN; *SITE ANALYSIS; *CLIMATE CONTROL; *GUIDELINES; LIGHTING DESIGN

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46; 11: 27,30-31

ACCESSION NUMBER: EJ102540

CLEARINGHOUSE ACCESSION NUMBER: EA505182

PUBLICATION DATE: AUG 74

TITLE: CUT ELECTRIC BILLS BY CONTROLLING DEMAND

PERSONAL AUTHOR: GRUMMAN, DAVID L.

DESCRIPTOR: *ELECTRICITY; *ENERGY CONSERVATION; *COST EFFECTIVENESS; *BUILDING OPERATION

ABSTRACT: ELECTRIC BILLS CAN BE REDUCED BY LOWERING ELECTRIC CONSUMPTION AND BY CONTROLLING DEMAND -- THE AMOUNT OF ELECTRICITY USED AT A CERTAIN POINT IN TIME. GIVES TIPS TO HELP REDUCE ELECTRIC DEMAND AT PEAK POWER PERIODS. (AUTHOR/DN)

JOURNAL CITATION: NATION'S SCHOOLS; 94; 2: 46-47

ACCESSION NUMBER: EJ102560

CLEARINGHOUSE ACCESSION NUMBER: EA505203

PUBLICATION DATE: AUG 74

TITLE: ENERGY CONSERVATION DESIGNED INTO HDR'S NEW BUILDING

PERSONAL AUTHOR: JENKINS, LARRY

DESCRIPTOR: *BUILDING DESIGN; *CONSERVATION (ENVIRONMENT); *HEATING; *FUEL CONSUMPTION; *ENGINEERING TECHNOLOGY; *ENERGY CONSERVATION; ENERGY; OMAHA; NEBRASKA

ABSTRACT: A NEW BUILDING HAS BEEN ENGINEERED BY ITS ENGINEER-OWNER TENANTS WITH PROVISIONS FOR TWO GAS-OIL HOT WATER GENERATORS AND FOR AN ELECTRIC BOILER, SO THAT OPERATING PERSONNEL COULD SWITCH TO WHATEVER FUEL IS AVAILABLE. (AUTHOR/NLF)

JOURNAL CITATION: CONSULTING ENGINEER; 43; 2: 124,126

ACCESSION NUMBER: EJ102571

CLEARINGHOUSE ACCESSION NUMBER: EA505214

PUBLICATION DATE: JUL-AUG 74

TITLE: ENERGY CONSERVATION. MAJOR ISSUES FOR '75

PERSONAL AUTHOR: PLATT, FRANK K.

DESCRIPTOR: *BUILDING OPERATION; *COST EFFECTIVENESS; *ENERGY CONSERVATION; *FACILITY PLANNING; *SCHOOL MAINTENANCE

ABSTRACT: ENERGY CONSERVATION CAN BE ACHIEVED IN SCHOOLS. IT CAN BE PROFITABLE BOTH IN PROLONGING OUR SOURCES OF ENERGY AND IN OPERATING ECONOMY. (AUTHOR/NLF)

JOURNAL CITATION: CEPP JOURNAL; 12; 4: 6-7

ACCESSION NUMBER: EJ102605

CLEARINGHOUSE ACCESSION NUMBER: EA505236

PUBLICATION DATE: JUN 74

TITLE: ENERGY-SAVING AC SYSTEM CHOSEN FOR MULTIMILLION DOLLAR MODERNIZATION PROJECT

DESCRIPTOR: *AIR CONDITIONING EQUIPMENT; *COST EFFECTIVENESS; *ENERGY CONSERVATION; *MERCHANDISE INFORMATION; *SCHOOL IMPROVEMENT

ABSTRACT: A SCHOOL MODERNIZATION PROJECT IN GEORGIA USES AIR CONDITIONING UNITS LINKED TO A CLOSED WATER LOOP THAT RETAINS AND REDISTRIBUTES HEAT WHEN AND WHERE NEEDED. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 46; 10: 44,46-47

ACCESSION NUMBER: EJ102608

CLEARINGHOUSE ACCESSION NUMBER: EA505278

PUBLICATION DATE: SEP 74

TITLE: MODERN METHOD FOR PREVENTIVE MAINTENANCE

PERSONAL AUTHOR: WILSON, HOWARD D.

DESCRIPTOR: *COMPUTER ORIENTED PROGRAMS; *HIGHER EDUCATION; *PREVENTION; *SCHOOL MAINTENANCE; COMPUTER PROGRAMS; ENERGY CONSERVATION; EQUIPMENT MAINTENANCE; UNIVERSITIES; *PREVENTIVE MAINTENANCE

ABSTRACT: DESCRIBES A SYSTEM AT MICHIGAN STATE UNIVERSITY THAT COMPRISES 16 SEPARATE PROGRAMS AND SCHEDULES 25,000 HOURS OF PREVENTIVE MAINTENANCE. WITH INFORMATION ABOUT PREVENTIVE MAINTENANCE FOR OVER 100,000 UNITS STORED IN ITS COMPUTER, THE UNIVERSITY SAVES PERSONNEL, TIME, AND ENERGY. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 47: 1: 31,33-36

ACCESSION NUMBER: EJ102611

CLEARINGHOUSE ACCESSION NUMBER: EA505281

PUBLICATION DATE: SEP 74

TITLE: HEATING/COOLING SYSTEM SAVES ENERGY

DESCRIPTOR: *AIR CONDITIONING; *CLIMATE CONTROLS; *ENERGY CONSERVATION; *HEATING; *SYSTEMS APPROACH; *SCHOOLS; *HEAT RECOVERY; *COOLING SYSTEMS

ABSTRACT: HEAT-RECOVERY WHEELS AND HEAT PUMPS PROVIDE EFFICIENT, ECONOMICAL TEMPERATURE CONTROL FOR THE HANFORD SCHOOL, RICHLAND, WASHINGTON. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 47: 1: 52

ACCESSION NUMBER: EJ103117

CLEARINGHOUSE ACCESSION NUMBER: SE511736

PUBLICATION DATE: AUG-SEP 74

TITLE: TAPPING THE SUN'S ENERGY

PERSONAL AUTHOR: LEE, DAVID G.

DESCRIPTOR: *ELECTRICITY; *ENERGY; *FUELS; *HEATING; *NATURAL RESOURCES; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION

ABSTRACT: DESCRIBES SEVERAL SUCCESSFUL ATTEMPTS TO UTILIZE SOLAR ENERGY FOR HEATING AND PROVIDING ELECTRICAL ENERGY FOR HOMES. INDICATES THAT MORE RESEARCH AND DEVELOPMENT ARE NEEDED, ESPECIALLY IN THE AREA OF LARGE SCALE USAGE. (SLH)

JOURNAL CITATION: NATIONAL WILDLIFE: 12: 5: 18-21

ACCESSION NUMBER: EJ103133

CLEARINGHOUSE ACCESSION NUMBER: SE511780

PUBLICATION DATE: AUG 74

TITLE: SCIENCE AND SOCIETY TEST FOR SCIENTISTS: THE ENERGY CRISIS

PERSONAL AUTHOR: HAFEMEISTER, DAVID

DESCRIPTOR: *COLLEGE SCIENCE; *PHYSICS; *SCIENTIFIC ENTERPRISE; *SCIENTISTS; *SOCIAL PROBLEMS; *ENVIRONMENT; *ENERGY; *SCIENTIFIC CONCEPTS

ABSTRACT: PRESENTS A TEST STRESSING BACK-OF-THE-ENVELOPE QUESTIONS MOST ACADEMIC SCIENTISTS SHOULD BE ABLE TO ANSWER. TOPICS INCLUDE LASER FUSION, EMERGENCY CORE COOLING, SOLAR SEA POWER, URBAN TRANSPORTATION, ETC. SUGGESTS THAT QUESTION-SWEEP FORMAT CAN BE USED TO TRANSMIT SCIENCE AND SOCIETY SUBJECT MATTER MORE EFFECTIVELY THAN SOPHISTICATED COMPUTER CALCULATIONS. (AUTHOR/SLH)

JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS: 42: 8: 625-641

ACCESSION NUMBER: EJ103650

CLEARINGHOUSE ACCESSION NUMBER: CE501588

PUBLICATION DATE: SEP 74

TITLE: EMPLOYMENT IN THE ATOMIC ENERGY FIELD, 1973

PERSONAL AUTHOR: MOYLAN, MAURICE P.

DESCRIPTOR: *EMPLOYMENT STATISTICS; *SKILLED WORKERS; *GOVERNMENT ROLE; *EMPLOYMENT TRENDS; *ENGINEERS; *SCIENTISTS; *SCIENTIFIC POWERS; *NUCLEAR ENERGY; *PRIVATE ENTERPRISE

ABSTRACT: PRIVATE INDUSTRY IS GRADUALLY REPLACING THE FEDERAL GOVERNMENT IN PEACEFUL ATOMIC ENERGY ACTIVITIES. AS A CONSEQUENCE, EMPLOYMENT IN THE FIELD OF ATOMIC ENERGY IS INCREASING IN PRIVATE INDUSTRY AND DECREASING IN GOVERNMENT-OWNED ESTABLISHMENTS. (AG)

JOURNAL CITATION: MONTHLY LABOR REVIEW: 97: 9: 23-7

ACCESSION NUMBER: EJ104104

CLEARINGHOUSE ACCESSION NUMBER: EA505246

PUBLICATION DATE: MAY 74

TITLE: THE THERMAL PERFORMANCE OF SCHOOL BUILDINGS

PERSONAL AUTHOR: O'SULLIVAN, P. E.; COLE, R. J.

DESCRIPTOR: *ENERGY CONSERVATION; *PERFORMANCE CRITERIA; *SCHOOL BUILDINGS; *THERMAL ENVIRONMENT; *BUILDING DESIGN; *MEASUREMENT; *OPEN PLAN SCHOOLS; *PRIMARY EDUCATION; *ENGLAND

ABSTRACT: ATTEMPTS TO COMPARE THE THERMAL ENVIRONMENT MEASURED WITHIN SCHOOLS WITH CURRENT PREDICTION METHODS AND THE ENERGY USED TO PRODUCE AND MAINTAIN THE THERMAL ENVIRONMENT WITH THAT PREDICTED. ARGUES THAT A MORE EXACT DEFINITION OF THE THERMAL CLIMATE FOR DESIGN PURPOSES IS NEEDED AND SUGGESTS SUCH A DEFINITION. (AUTHOR/EA)

JOURNAL CITATION: JOURNAL OF ARCHITECTURAL RESEARCH: 3: 2: 3

6-18

ACCESSION NUMBER: EJ104129

CLEARINGHOUSE ACCESSION NUMBER: EA505284

PUBLICATION DATE: SEP 74

TITLE: THE ENERGY ADVISOR...PLANNING NEW SCHOOLS

DESCRIPTOR: *BUILDING DESIGN; *ENERGY CONSERVATION; *FACILITY PLANNING; *SCHOOL CONSTRUCTION; *SHARED FACILITIES; *LIFE CYCLE COSTING

ABSTRACT: THIS CONTINUING SERIES ON ENERGY CONSERVATION LOOKS AT OPPORTUNITIES FOR SAVINGS IN NEW BUILDING CONSTRUCTION. (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS: 12-13

ACCESSION NUMBER: EJ104168

CLEARINGHOUSE ACCESSION NUMBER: EA505335

PUBLICATION DATE: OCT 74

TITLE: ELECTRIC POWER: TAMING THE PEAKS

DESCRIPTOR: *COMPUTER PROGRAMS; *ELECTRICITY; *ENERGY CONSERVATION; *UTILITIES; *SCHOOL BUILDINGS; *LOAD DEMAND CONTROL

ABSTRACT: BY TURNING OFF CERTAIN NONCRITICAL ELECTRICAL POWER LOADS WHENEVER DEMAND APPROACHES A PREDETERMINED LEVEL, SCHOOL OFFICIALS CAN REDUCE UTILITY COSTS. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS: 4-6

ACCESSION NUMBER: EJ104169

CLEARINGHOUSE ACCESSION NUMBER: EA505336

PUBLICATION DATE: OCT 74

TITLE: POWER MONITOR CONTROL SYSTEM PROVIDES NEW LIFE FOR OLD SCHOOLS

DESCRIPTOR: *CLASSROOM ENVIRONMENT; *COST EFFECTIVENESS; *ENERGY CONSERVATION; *SCHOOL IMPROVEMENT; *ACOUSTICAL ENVIRONMENT; *THERMAL ENVIRONMENT; *VISUAL ENVIRONMENT; *ELECTRIC POWER MONITOR

ABSTRACT: A BUSINESS FIRM SPECIALIZES IN REMODELING OBSOLETE CLASSROOMS AND USES AN ELECTRIC POWER MONITOR TO PROGRAM REDUCTIONS IN NONESSENTIAL POWER USE. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS: 7-8

ACCESSION NUMBER: EJ104620

CLEARINGHOUSE ACCESSION NUMBER: IR501079

PUBLICATION DATE: OCT-NOV 74

TITLE: THE ENERGY CRISIS AND INFORMATION

PERSONAL AUTHOR: CASWELL, VIRGINIA D.

DESCRIPTOR: *ENERGY; *LEGISLATION; *INFORMATION SOURCES; *ENERGY CONSERVATION; *NATURAL RESOURCES; *INDEXES (LOCATORS); *ANNOTATED BIBLIOGRAPHIES; *ENERGY CRISIS

ABSTRACT: REVIEWS PROPOSED CONGRESSIONAL ENERGY LEGISLATION AND LISTS AVAILABLE SOURCES OF INFORMATION ON ENERGY. (PF)

JOURNAL CITATION: SPECIAL LIBRARIES: 65: 10-11: 415-420

ACCESSION NUMBER: EJ104746

CLEARINGHOUSE ACCESSION NUMBER: SE511512

PUBLICATION DATE: JUN 74

TITLE: ENERGY CRISIS FUELS NSF BUDGET

PERSONAL AUTHOR: RUSSELL, CRISTINE

DESCRIPTOR: *BUDGETS; *ENERGY; *FEDERAL PROGRAMS; *SCIENCE; *SCIENTIFIC RESEARCH; *NATIONAL SCIENCE FOUNDATION; *OFFICE OF ENERGY RELATED GENERAL RESEARCH

ABSTRACT: THE ENERGY CRISIS HAS PROVED TO BE A ROOM TO THE NATIONAL SCIENCE FOUNDATION. THE FOUNDATION HAS REQUESTED APPROXIMATELY \$788.2 MILLION FOR 1975, NEARLY ALL THE INCREASE OVER THE 1974 BUDGET AND ABOUT 1/3 OF THE TOTAL BUDGET IS ENERGY RELATED. (RH)

JOURNAL CITATION: BIOSCIENCE: 24: 6: 329-332

ACCESSION NUMBER: EJ104749

CLEARINGHOUSE ACCESSION NUMBER: SE511604

PUBLICATION DATE: JUL 74

TITLE: ZERO ENERGY GROWTH POSSIBLE SAYS FORD FOUNDATION REPORT

DESCRIPTOR: *ECONOMIC DEVELOPMENT; *ECONOMIC RESEARCH; *ENERGY; *NATURAL RESOURCES; *POLICY; *FORD FOUNDATION

ABSTRACT: A PRELIMINARY REPORT BY THE FORD FOUNDATION'S ENERGY POLICY PROJECT EXPOUNDS THE THEORY THAT ECONOMIC GROWTH NEED NOT BE TIED TO HIGH ENERGY CONSUMPTION. (AUTHOR/RH)

JOURNAL CITATION: BIOSCIENCE: 24: 7: 396

ACCESSION NUMBER: EJ104751

CLEARINGHOUSE ACCESSION NUMBER: SE511664

PUBLICATION DATE: JUL 74

TITLE: THE DETERIORATING ENERGY POSITION

PERSONAL AUTHOR: ABELSON, PHILIP H.

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ENERGY; *FEDERAL LEGISLATION; *NATURAL RESOURCES; EDITORIALS; TECHNOLOGY; SOIL

ABSTRACT: DESPITE A SHARP LESSON IN THE FOLLY OF EXCESSIVE DEPENDENCE ON FOREIGN SOURCES OF OIL, WE ARE NOW DRIFTING INTO DEEPER DEPENDENCE WITH NO RELIEF IN SIGHT. CONGRESS AND THE ADMINISTRATION PROVIDE FEW INDICATIONS THAT THEY ARE GOING TO DO ANYTHING SUBSTANTIAL ABOUT IT. EFFORTS AT CONSERVATION HAVE DIMINISHED. (RM)

JOURNAL CITATION: SCIENCE: 185: 4148: 309

ACCESSION NUMBER: EJ104752

CLEARINGHOUSE ACCESSION NUMBER: SE511665

PUBLICATION DATE: JUL 74

TITLE: THERMOCHEMICAL HYDROGEN GENERATION

PERSONAL AUTHOR: WENTORF, R. H., JR.; HANNEMAN, R. E.

DESCRIPTOR: *CHEMISTRY; *ENERGY; *NATURAL RESOURCES; FUELS; TECHNOLOGY; *HYDROGEN GENERATION PROCESSES; HYDROGEN

ABSTRACT: BASIC CONCEPTS OF THERMOCHEMICAL HYDROGEN GENERATION PROCESSES ARE SUMMARIZED. CRITERIA FOR SCREENING AND SELECTING PROCESSES ARE DESCRIBED. (RM)

JOURNAL CITATION: SCIENCE: 185: 4148: 311-319

ACCESSION NUMBER: EJ105184

CLEARINGHOUSE ACCESSION NUMBER: AA519238

PUBLICATION DATE: OCT 74

TITLE: PROJECT INDEPENDENCE: ITS ECOLOGICAL AND SOCIOLOGICAL IMPLICATIONS

PERSONAL AUTHOR: STRAIN, BOYD R.

DESCRIPTOR: *SOCIOLOGY; *ECOLOGY; *ENERGY; *FUEL CONSUMPTION; *FUELS; TABLES (DATA); NEED GRATIFICATION; NATURAL RESOURCES; *PROJECT INDEPENDENCE

ISSUE: CIJE1975

ABSTRACT: ARTICLE REVIEWED THE CURRENT ENERGY DEMANDS OF THE UNITED STATES, ENUMERATED THE MAJOR ALTERNATIVE ENERGY SOURCES AND COMMENTED BRIEFLY ON THEIR FEASIBILITY, AND CONSIDERED SOME ECOLOGICAL AND SOCIAL IMPLICATIONS OF ATTEMPTING TO MEET OUR PROJECTED DEMANDS PRIMARILY BY USING OUR DOMESTIC FOSSIL FUEL RESERVES. (AUTHOR/RK)

JOURNAL CITATION: HIGH SCHOOL JOURNAL: 58: 1: 11-20

ACCESSION NUMBER: EJ105352

CLEARINGHOUSE ACCESSION NUMBER: CE501783

PUBLICATION DATE: OCT 74

TITLE: KEEPING THE MIGRANT STREAM FLOWING

PERSONAL AUTHOR: ALEGRIA, FERNANDO, JR.

DESCRIPTOR: *MIGRANT TRANSPORTATION; *OCCUPATIONAL MOBILITY; *ENERGY CONSERVATION; MIGRANTS; MIGRANT PROBLEMS; GOVERNMENT ROLE; EMPLOYERS

ISSUE: CIJE1975

ABSTRACT: IN A COOPERATIVE EFFORT GOVERNMENT AGENCIES AND WORKER GROUPS PREVENTED MIGRANT WORKERS FROM BECOMING EARLY CASUALTIES OF THE ENERGY CRISIS THROUGH VARIOUS HELP PROGRAMS. (BP)

JOURNAL CITATION: NAAPOWER: 6: 10: 25-7

ACCESSION NUMBER: EJ105826

CLEARINGHOUSE ACCESSION NUMBER: EA505400

PUBLICATION DATE: OCT 74

TITLE: ARE YOUR STEAM TRAPS LEAKING MONEY?

DESCRIPTOR: *ENERGY CONSERVATION; *EQUIPMENT MAINTENANCE; *HEATING; COST EFFECTIVENESS; FACILITY GUIDELINES; FUEL CONSUMPTION; SCHOOL MAINTENANCE; *STEAM HEATING SYSTEMS

ISSUE: CIJE1975

ABSTRACT: CONTENTS THAT SMALL DEFECTS IN STEAM HEATING SYSTEMS OFTEN GO UNNOTICED, WHILE EFFICIENCY DROPS. PRESENTS GUIDELINES FOR DETECTING STEAM LOSS THROUGH TRAP ORIFICES AND DETERMINING HOW MUCH THEY ARE COSTING. (AUTHOR/MLP)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 47: 2: 49-50

ACCESSION NUMBER: EJ105846

CLEARINGHOUSE ACCESSION NUMBER: EA505420

PUBLICATION DATE: NOV 74

TITLE: LIGHTING TURNS ON LEARNING

DESCRIPTOR: *DESIGN NEEDS; *ENERGY CONSERVATION; *FLEXIBLE LIGHTING DESIGN; *ILLUMINATION LEVELS; *LIGHTING; CLASSROOM ENVIRONMENT; GLARE

ISSUE: CIJE1975

ABSTRACT: ATTEMPTS TO RESOLVE THE TWO FACTORS INSTRUMENTAL IN THE EFFECTIVELY LIGHTED NEW CLASSROOMS: PLANNING WITHOUT TAKING NEWER DESIGN TECHNIQUES INTO CONSIDERATION AND CONFUSION REGARDING THE LIGHTING OBJECTIVES IN THE CLASSROOM. (AUTHOR/EA)

JOURNAL CITATION: MODERN SCHOOLS: 4-7

ACCESSION NUMBER: EJ105869

CLEARINGHOUSE ACCESSION NUMBER: EA505443

PUBLICATION DATE: SEP 74

TITLE: PLANT OPERATION: COST CONTROL, CARPETING, ENERGY

DESCRIPTOR: *CARPETING; *ENERGY CONSERVATION; *STUDENT EMPLOYMENT; ELEMENTARY SCHOOLS; FLOORING; GYMNASIUMS; HEATING; HIGHER EDUCATION; LABOR; SECONDARY SCHOOLS

ISSUE: CIJE1975

ABSTRACT: NOTES ON TOPICS SUCH AS USE OF STUDENT WORK CREWS AT SPECIAL EVENTS; CARPETING FOR GYMNASIUMS; AND A SYSTEM FOR MIXING WATER WITH OIL FOR MORE EFFICIENT HEATING. (JF)

JOURNAL CITATION: NATION'S SCHOOLS AND COLLEGES: 1: 1: 34-55

ACCESSION NUMBER: EJ105880

CLEARINGHOUSE ACCESSION NUMBER: EA505454

PUBLICATION DATE: OCT 74

TITLE: ENERGY: DESIGN, RETROFIT

DESCRIPTOR: *BUILDING DESIGN; *ENERGY CONSERVATION; *NATURAL RESOURCES; *SCHOOL BUILDINGS; COLLEGES; ELEMENTARY SCHOOLS; *SOLAR ENERGY

ISSUE: CIJE1975

ABSTRACT: NOTES ON NEW BUILDING DESIGNS THAT CONSERVE ENERGY BY TAKING ADVANTAGE OF NATURAL RESOURCES. (JF)

JOURNAL CITATION: NATION'S SCHOOLS AND COLLEGES: 1: 2: 48-49

ACCESSION NUMBER: EJ105882

CLEARINGHOUSE ACCESSION NUMBER: EA505456

PUBLICATION DATE: OCT 74

TITLE: STUDENTS: GUIDANCE, CURRICULUM

DESCRIPTOR: *CAREER OPPORTUNITIES; *COMPUTER ORIENTED PROGRAMS; *COUNSELING PROGRAMS; *ENERGY CONSERVATION; *VOCATIONAL COUNSELING; HIGH SCHOOLS; STUDENT PROJECTS; CAR POOLS

ISSUE: CIJE1975

ABSTRACT: DESCRIPTIVE NOTES ON TOPICS SUCH AS COMPUTER PROGRAMS FOR JOB COUNSELING AND A CAR POOL SYSTEM DESIGNED BY HIGH SCHOOL STUDENTS. (JF)

JOURNAL CITATION: NATION'S SCHOOLS AND COLLEGES: 1: 2: 57-58,63

ACCESSION NUMBER: EJ105890

CLEARINGHOUSE ACCESSION NUMBER: EA505472

PUBLICATION DATE: NOV 74

TITLE: IN FIBROUS FIELDS. TECHNIQS: CARPET FOR ARCHITECTURE

PERSONAL AUTHOR: YEE, ROGER

DESCRIPTOR: *CARPETING; *ENERGY CONSERVATION; *FLOOR LAYERS; *MANUFACTURING; *MERCHANDISE INFORMATION

ISSUE: CIJE1975

ABSTRACT: CARPET IS AN AGELESS YOUTH. CIVILIZATION HAS WRITTEN ITS HISTORY ON CARPET. THE ARCHITECT SPECIFYING CARPET FOR A WIDE RANGE OF APPLICATIONS SOON LEARNS IT IS TECHNICALLY AS ADVANCED AS THE BUILDINGS IT GRACES. TELLS STORY OF ART AND CRAFT OF CARPET MANUFACTURE FROM OBSCURE ORIGINS IN THE ORIENT TO MODERN MANUFACTURING METHODS. (AUTHOR/EA)

JOURNAL CITATION: PROGRESSIVE ARCHITECTURE: 118-124

ACCESSION NUMBER: EJ106340

CLEARINGHOUSE ACCESSION NUMBER: SE511849

PUBLICATION DATE: 74

TITLE: ENERGY FOR AMERICA'S THIRD CENTURY

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ENERGY; *NATURAL RESOURCES; *RESEARCH; *ENERGY USE; SOLAR ENERGY; GEOTHERMAL ENERGY; COAL

ISSUE: CIJE1975

ABSTRACT: SIX ARTICLES CONCERNED WITH ENERGY USE, ENERGY RESEARCH AND SOURCES OF ENERGY ARE INCLUDED IN THIS ISSUE. ARTICLES ARE TITLED (1) ENERGY SYSTEMS; (2) ENERGY-RELATED RESEARCH; (3) SOLAR ENERGY; (4) GEOTHERMAL ENERGY; (5) COAL; AND (6) UTILIZATION OF ENERGY. (RH)

JOURNAL CITATION: MOSAIC; 5; 2; 2-36

ACCESSION NUMBER: EJ106422

CLEARINGHOUSE ACCESSION NUMBER: SE512062

PUBLICATION DATE: NOV 74

TITLE: ENERGY: FORD FOUNDATION STUDY URGES ACTION ON CONSERVATION

PERSONAL AUTHOR: HAMMOND, ALLEN L.

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ENERGY; *NATURAL RESOURCES; *PREDICTION; ENVIRONMENT; REPORTS; RESEARCH; *FORD FOUNDATION ENERGY POLICY PROJECT

ISSUE: CIJE1975

ABSTRACT: ANNOUNCES COMPLETION OF A FINAL REPORT AND SUMMARIZES RECOMMENDATIONS OF THE FORD FOUNDATION ENERGY POLICY PROJECT BASED ON ANALYSES OF THREE DIFFERENT SCENARIOS OF HOW AMERICA'S ENERGY FUTURE MIGHT DEVELOP. THE STUDY URGES THAT MANY CONSERVATION MEASURES BE PLANNED AND IMPLEMENTED. (RH)

JOURNAL CITATION: SCIENCE; 186; 4162; 426,428

ACCESSION NUMBER: EJ106477

CLEARINGHOUSE ACCESSION NUMBER: SE512122

PUBLICATION DATE: NOV 74

TITLE: THE SCIENCE TEACHER AS ENERGY ANALYST AND ACTIVIST

PERSONAL AUTHOR: AGNE, RUSSELL M.; AND OTHERS

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *SCIENCE EDUCATION; *SOCIAL RESPONSIBILITY; *TEACHER ROLE; BIOLOGICAL SCIENCES; INSTRUCTION; PHYSICAL SCIENCE; SECONDARY SCHOOL SCIENCE

ISSUE: CIJE1975

ABSTRACT: ADVOCATES THAT SCIENCE TEACHERS MOVE FROM AN EMPHASIS ON THE DISCIPLINE OF SCIENCE TO ONE OF HELPING LEARNERS SEE THE SHORT-, INTERMEDIATE-, AND LONG-TERM EFFECTS OF THEIR ACTIONS IN REGARD TO ENERGY. SCIENCE TEACHERS MUST, IN THE AUTHORS' OPINIONS, GO FAR BEYOND THE TRADITIONAL LIMITS OF SCIENCE TEACHING. (PEB)

JOURNAL CITATION: SCIENCE TEACHER; 41; 8; 12-17

ACCESSION NUMBER: EJ106478

CLEARINGHOUSE ACCESSION NUMBER: SE512123

PUBLICATION DATE: NOV 74

TITLE: COAL: AMERICA'S MOST ABUNDANT FUEL

PERSONAL AUTHOR: KRAFT, BETSY

DESCRIPTOR: *ENERGY; *FUELS; EARTH SCIENCE; ENERGY CONSERVATION; GENERAL SCIENCE; INDUSTRY; SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; *COAL; STRIP MINING

ISSUE: CIJE1975

ABSTRACT: PROVIDES A BACKGROUND BIOGRAPHY OF COAL AND ITS PLACE IN OUR NATIONAL DEVELOPMENT. (AUTHOR/PEB)

JOURNAL CITATION: SCIENCE TEACHER; 41; 8; 18-21

ACCESSION NUMBER: EJ106479

CLEARINGHOUSE ACCESSION NUMBER: SE512124

PUBLICATION DATE: NOV 74

TITLE: CLEAN COAL THROUGH TECHNOLOGY

PERSONAL AUTHOR: JORDAN, PAUL R.

DESCRIPTOR: *ENERGY; *FUELS; *NATURAL RESOURCES; *TECHNOLOGY; GENERAL SCIENCE; PHYSICAL SCIENCES; SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; *COAL

ISSUE: CIJE1975

ABSTRACT: DESCRIBED ARE SOME OF THE METHODS AVAILABLE FOR CONVERTING COAL INTO "CLEAN" ENERGY. (PEB)

JOURNAL CITATION: SCIENCE TEACHER; 41; 8; 22-25

ACCESSION NUMBER: EJ106480

CLEARINGHOUSE ACCESSION NUMBER: SE512125

PUBLICATION DATE: NOV 74

TITLE: ON THE ROLE OF NUCLEAR ENERGY

PERSONAL AUTHOR: PARSEKIAN, V. LAWRENCE

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *NUCLEAR PHYSICS; *POLLUTION; CONSERVATION (ENVIRONMENT); RADIATION; SCIENCE EDUCATION; *NUCLEAR ENERGY

ISSUE: CIJE1975

ABSTRACT: THE AUTHOR ELABORATES ON THE THESIS THAT MUCH OF THE CONFUSION AND ARGUMENT ABOUT THE ROLE OF NUCLEAR ENERGY IN MEETING THE ENERGY NEEDS OF THE NATION AND THE WORLD IS CAUSED BY FAILURE TO PLACE THE KNOWN FACTS IN PERSPECTIVE WITH RESPECT TO TIME, TO HAZARDS THAT ACCOMPANY THE USE OF ENERGY IN ANY FORM, TO ECONOMICS, AND TO ULTIMATE LIMITATIONS IN ENERGY-PRODUCING MATERIALS. (PEB)

JOURNAL CITATION: SCIENCE TEACHER; 41; 8; 26-28

ACCESSION NUMBER: EJ106482

CLEARINGHOUSE ACCESSION NUMBER: SE512127

PUBLICATION DATE: NOV 74

TITLE: THE CASE FOR OFFSHORE DRILLING

PERSONAL AUTHOR: LAIRD, WILSON M.

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ENERGY; *FUELS; *PETROLEUM INDUSTRY; ENVIRONMENT; ENVIRONMENTAL EDUCATION; SCIENCE EDUCATION; TECHNOLOGY

ISSUE: CIJE1975

ABSTRACT: PRESENTS THE POINT OF VIEW THAT OFFSHORE PETROLEUM CAN BE DEVELOPED AND PRODUCED IN A MANNER CONSISTENT WITH ENVIRONMENTAL CONSIDERATIONS. (SEE SE 512 128 FOR A DIFFERENT POINT OF VIEW.) (PEB)

JOURNAL CITATION: SCIENCE TEACHER; 41; 8; 32-34

ACCESSION NUMBER: EJ106483

CLEARINGHOUSE ACCESSION NUMBER: SE512128

PUBLICATION DATE: NOV 74

TITLE: OFFSHORE OIL: ENVIRONMENTAL IMPACTS ON LAND AND SEA

PERSONAL AUTHOR: BALDWIN, PAMELA L.

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ENERGY CONSERVATION; *FUELS; *PETROLEUM INDUSTRY; *POLLUTION; ENERGY; ENVIRONMENT; ENVIRONMENTAL EDUCATION

ISSUE: CIJE1975

ABSTRACT: PRESENTS A COUNTER POSITION TO THAT PROVIDED IN SE 512 127 IN WHICH THE AUTHOR EMPHASIZES THAT THERE ARE TOO MANY PROBLEMS YET TO BE SOLVED (RELATED TO OFFSHORE OIL DEVELOPMENT) TO PROCEED WITH FULL-SCALE DEVELOPMENT OF OFFSHORE OIL DRILLING. (PEB)

JOURNAL CITATION: SCIENCE TEACHER; 41; 8; 34-37

ACCESSION NUMBER: EJ106489

CLEARINGHOUSE ACCESSION NUMBER: SE512134

PUBLICATION DATE: NOV 74

TITLE: PROJECT POSSIBLE ATTACKS AN IMPOSSIBLE SITUATION

PERSONAL AUTHOR: KNIPSEL, RANDY; AND OTHERS

DESCRIPTOR: *ENERGY CONSERVATION; *INTERDISCIPLINARY APPROACH; *PROGRAM DESCRIPTIONS; ENERGY; ENVIRONMENTAL EDUCATION; JUNIOR HIGH SCHOOL STUDENTS; LANGUAGE ARTS; SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; UNIFIED STUDIES PROGRAMS

ISSUE: CIJE1975

ABSTRACT: DESCRIBED IS PROJECT POSSIBLE, PRESENTED AS A PART OF A SIX WEEK SCIENCE AND LANGUAGE ARTS COURSE FOR EIGHTH GRADE STUDENTS AND DESIGNED TO INVESTIGATE NEW OR UNDERDEVELOPED ALTERNATIVES TO PRESENT ENERGY USE. (PEB)

JOURNAL CITATION: SCIENCE TEACHER; 41; 8; 49-50

ACCESSION NUMBER: EJ106500

CLEARINGHOUSE ACCESSION NUMBER: SE512200

PUBLICATION DATE: NOV 74

TITLE: SCIENCE AND THE PROBLEMATIQUE

PERSONAL AUTHOR: HERSCHMAN, ARTHUR

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *MEETINGS; *SCIENCE EDUCATION; ENERGY; FOOD; LIFE STYLE; POPULATION TRENDS; PUBLIC HEALTH; SCIENCES; URBAN ENVIRONMENT

ISSUE: CIJE1975

ABSTRACT: TOPICS COVERED IN THE UPCOMING AAAS ANNUAL MEETING ON "SCIENCE AND THE QUALITY OF LIFE" ARE OUTLINED AND BRIEFLY DISCUSSED. (DT)

JOURNAL CITATION: SCIENCE; 186; 4165; 727

ACCESSION NUMBER: EJ106502

CLEARINGHOUSE ACCESSION NUMBER: S0503174

PUBLICATION DATE: NOV-DEC 74

TITLE: THE UNITED STATES AND THE DEVELOPING COUNTRIES IN THE NEW EMERGING INTERNATIONAL ORDER

PERSONAL AUTHOR: GRANT, JAMES P.

DESCRIPTOR: *DEVELOPING NATIONS; *ECONOMIC DISADVANTAGES; *WORLD PROBLEMS; *ECONOMIC DEVELOPMENT; GLOBAL APPROACH; FOREIGN POLICY; ENERGY; POPULATION GROWTH; *INTERDEPENDENCE; FOOD SCARCITY

ISSUE: CIJE1975

ABSTRACT: THIS ARTICLE ANALYZES THE POSITION OF THE UNITED STATES IN LIGHT OF THE GLOBAL SHORTAGE OF FOOD AND ENERGY. THE UNITED STATES HAS A UNIQUE OPPORTUNITY TO EXERCISE LEADERSHIP BECAUSE IT DOMINATES THE WORLD'S PRODUCTION OF FOOD AND MUST INITIATE NEW GLOBAL POLICIES TO HELP RELIEVE THE PROBLEMS. (AUTHOR/DE)

JOURNAL CITATION: SOCIAL EDUCATION; 38: 7: 636-639

ACCESSION NUMBER: EJ107280

CLEARINGHOUSE ACCESSION NUMBER: EA505494

PUBLICATION DATE: NOV-DEC 74

TITLE: MAINTENANCE AND SECURITY BEGIN AT HOME

DESCRIPTOR: *VANDALISM; *ENERGY CONSERVATIONS; *COSTS; *EFFICIENCY; *FUEL CONSUMPTION; SAFETY EQUIPMENT; SCHOOL MAINTENANCE; *SCHOOL SECURITY; ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1975

ABSTRACT: SOMETIMES DISTRICTS CAN IMPROVE THEIR MAINTENANCE AND SECURITY AND FIND MORE EFFICIENT AND LESS COSTLY APPROACHES TO BOTH AREAS WHEN THEY TAP THEIR OWN PERSONNEL RESOURCES. ILLUSTRATIONS SHOW HOW EFFECTIVELY PROBLEMS HAVE BEEN DEALT WITH BY PEOPLE OF TALENT AND ABILITY WITHIN THE SYSTEM. (AUTHOR/MLF)

JOURNAL CITATION: SCHOOL MANAGEMENT; 18: 9: 15-16

ACCESSION NUMBER: EJ107556

CLEARINGHOUSE ACCESSION NUMBER: ME505931

PUBLICATION DATE: DEC/JAN 74

TITLE: TROUBLE LOOMS FOR ATOMIC POWER IN ENERGY REORGANIZATION

PERSONAL AUTHOR: GREENBERG, DANIEL S.

DESCRIPTOR: *HIGHER EDUCATION; *RESEARCH; *ATOMIC THEORY; *ENERGY; ORGANIZATIONAL DEVELOPMENT; FEDERAL GOVERNMENT; *NUCLEAR REGULATORY COMMISSIONS; ENERGY RESEARCH AND DEVELOPMENT ADMIN

ISSUE: CIJE1975

ABSTRACT: DISCUSSES THE REORGANIZATION OF ALL FEDERAL ENERGY RESEARCH ACTIVITIES, INCLUDING A NEW COMMISSION FOR REGULATING ATOMIC ENERGY. (AUTHOR/PG)

JOURNAL CITATION: CHANGE; 6: 10: 53-54

ACCESSION NUMBER: EJ107854

CLEARINGHOUSE ACCESSION NUMBER: SE511850

PUBLICATION DATE: SEP 74

TITLE: COMMERCIAL NUCLEAR STEAM-ELECTRIC POWER PLANTS, PART I

PERSONAL AUTHOR: SHORE, FERDINAND J.

DESCRIPTOR: *ATOMIC THEORY; *ELECTRICITY; *ENERGY; SAFETY; *ATOMIC ENERGY; FISSION; GENERATORS; REACTORS

ISSUE: CIJE1975

ABSTRACT: PRESENTED IS A DISCUSSION OF THE NUCLEAR TECHNOLOGY OF THE FISSION PROCESS AS APPLIED TO COMMERCIAL NUCLEAR POWER PLANTS. INCLUDED IS A BRIEF DISCUSSION OF SAFETY FACTORS. (RM)

JOURNAL CITATION: PHYSICS TEACHER; 12: 6: 327-334

ACCESSION NUMBER: EJ107892

CLEARINGHOUSE ACCESSION NUMBER: SE511947

PUBLICATION DATE: OCT-NOV 74

TITLE: SPECIAL EIGHT-PAGE REPORT ON ENERGY

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *FUELS; *FUEL CONSUMPTION; *NATURAL RESOURCES; CONSERVATION EDUCATION; ENVIRONMENT; POLLUTION

ISSUE: CIJE1975

ABSTRACT: THIS ARTICLE IS A BRIEF OVERVIEW OF THE ENERGY PROBLEMS OF TODAY AND OF THE FUTURE. ENERGY SOURCES, FACTORS CONTRIBUTING TO FOSSIL FUEL SHORTAGE, ENERGY CONSERVATION, ENERGY DEMANDS AND USES IN THE UNITED STATES, AND THE ADVANTAGES AND DISADVANTAGES OF ALTERNATIVE FUELS ARE DISCUSSED. (TK)

JOURNAL CITATION: NATIONAL WILDLIFE; 12: 6: 13-20

ACCESSION NUMBER: EJ107918

CLEARINGHOUSE ACCESSION NUMBER: SE512161

PUBLICATION DATE: NOV 74

TITLE: EQUIPMENT & NEW PRODUCTS

PERSONAL AUTHOR: POITRAS, ADRIAN W., ED.

DESCRIPTOR: *AUDIOVISUAL AIDS; *LABORATORY EQUIPMENT; *SAFETY; *SCIENCE EQUIPMENT; CHEMISTRY; ENERGY; MICROSCOPES; OPTICS; PHYSICS; SCIENCE EDUCATION

ISSUE: CIJE1975

JOURNAL CITATION: JOURNAL OF COLLEGE SCIENCE TEACHING; 4: 2: 142-143

ACCESSION NUMBER: EJ107984

CLEARINGHOUSE ACCESSION NUMBER: SE512290

PUBLICATION DATE: OCT 74

TITLE: SOLAR ENERGY FOR HEATING SCHOOLS

PERSONAL AUTHOR: COLLINS, CAROL

DESCRIPTOR: *ENERGY; *HEATING; *SOLAR RADIATION; *SCHOOL CONSTRUCTION; HEAT; PHYSICS; RADIATION; SCIENCE ACTIVITIES; SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE

ISSUE: CIJE1975

JOURNAL CITATION: SCIENCE TEACHER; 41: 7: 28-29

ACCESSION NUMBER: EJ108001

CLEARINGHOUSE ACCESSION NUMBER: SE512452

PUBLICATION DATE: OCT 74

TITLE: STUDY GIVES GOOD ODDS ON NUCLEAR REACTOR SAFETY

PERSONAL AUTHOR: RUSSELL, CRISTINE

DESCRIPTOR: *ENERGY; *RADIATION; *RADIATION EFFECTS; *SAFETY; *NUCLEAR REACTORS

ISSUE: CIJE1975

ABSTRACT: SUMMARIZED IS DATA FROM A RECENT STUDY ON NUCLEAR REACTOR SAFETY COMPLETED BY NORMAN C. RASMUSSEN AND OTHERS. NON-NUCLEAR EVENTS ARE ABOUT 10,000 TIMES MORE LIKELY TO PRODUCE LARGE ACCIDENTS THAN NUCLEAR PLANTS. (RM)

JOURNAL CITATION: BIOSCIENCE; 24: 10: 605-606

ACCESSION NUMBER: EJ108693

CLEARINGHOUSE ACCESSION NUMBER: CE502200

PUBLICATION DATE: JAN/FEB 75

TITLE: THE ENERGY ISSUE AND ITS PLACE IN THE CONSUMER EDUCATION PROGRAM

PERSONAL AUTHOR: BONNICE, JOSEPH G.

DESCRIPTOR: *CONSUMER EDUCATION; *ENERGY CONSERVATION; *RELEVANCE (EDUCATION); *CURRICULUM DEVELOPMENT; EDUCATIONAL PROGRAMS; TEACHING TECHNIQUES

ISSUE: CIJE1975

JOURNAL CITATION: BUSINESS EDUCATION WORLD; 55: 3: 23

ACCESSION NUMBER: EJ109213

CLEARINGHOUSE ACCESSION NUMBER: EA505586

PUBLICATION DATE: DEC 74

TITLE: TIMELY TIPS TO CONSERVE ENERGY

DESCRIPTOR: *ENERGY CONSERVATION; *COST EFFECTIVENESS; *EQUIPMENT MAINTENANCE; *SCHOOL BUILDINGS; *CLIMATE CONTROL; GUIDELINES; ELECTRICITY; EDUCATIONAL FACILITIES; ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1975

ABSTRACT: ENERGY CONSERVING HINTS THAT CAN MEAN SIGNIFICANT SAVINGS FOR THE SCHOOL BUDGET. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS; 11

ACCESSION NUMBER: EJ109219

CLEARINGHOUSE ACCESSION NUMBER: EA505592

PUBLICATION DATE: NOV-DEC 74

TITLE: THE RECHARGEABLE, RENEWABLE SCHOOL

PERSONAL AUTHOR: GALE, JOSEPH

DESCRIPTOR: *COST EFFECTIVENESS; *FUEL CONSUMPTION; *MODULAR BUILDING DESIGN; *CLIMATE CONTROL; *ENERGY CONSERVATION; HEATING; FLEXIBLE CLASSROOMS; OPEN PLAN SCHOOLS; SECONDARY EDUCATION; HEAT RECOVERY SYSTEM

ISSUE: CIJE1975

ABSTRACT: THE PISCATAWAY (NEW JERSEY) HIGH SCHOOL USES RECESSED WINDOWS AND AN INTEGRATED HEAT RECOVERY SYSTEM. MADE POSSIBLE BY ITS MODULAR DESIGN, TO CONSERVE ENERGY. AVAILABLE FROM: NEW JERSEY SCHOOL BOARDS ASSOCIATION, P.O. BOX 909, TRENTON, NEW JERSEY 08605. (AUTHOR/MLF)

JOURNAL CITATION: NEW JERSEY SCHOOL LEADER; 3: 3: 25-27

ACCESSION NUMBER: EJ109234
CLEARINGHOUSE ACCESSION NUMBER: EA505609
PUBLICATION DATE: JAN 75
TITLE: ENERGY MANAGEMENT: KEY TO KITCHEN EFFICIENCY
DESCRIPTOR: *ENERGY CONSERVATION; *FOOD HANDLING FACILITIES; *EQUIPMENT MAINTENANCE; *ELECTRICAL APPLIANCES; *MANAGEMENT; CLEANING; LUNCH PROGRAMS
ISSUE: CIJE1975
ABSTRACT: STARTING AN ENERGY MANAGEMENT PROGRAM IN THE SCHOOL LUNCH SYSTEM CAN PROVIDE MAXIMUM EQUIPMENT EFFECTIVENESS AND BETTER ENERGY EFFICIENCY. (AUTHOR)
JOURNAL CITATION: MODERN SCHOOLS; 4-6

ACCESSION NUMBER: EJ109840
CLEARINGHOUSE ACCESSION NUMBER: SE512138
PUBLICATION DATE: NOV 74
TITLE: ARE SCIENTISTS OBSOLETE?
PERSONAL AUTHOR: BROOKS, HARVEY
DESCRIPTOR: *EMPLOYMENT; *MANPOWER NEEDS; *SCIENTISTS; COMMUNICATION (THOUGHT TRANSFER); ENERGY; ENVIRONMENT; HEALTH; POLLUTION; TECHNOLOGY; TRANSPORTATION
ISSUE: CIJE1975
ABSTRACT: IN RECENT YEARS A PROFOUND TRANSFORMATION HAS OCCURRED IN THE ENVIRONMENT FOR THE CONDUCT OF RESEARCH IN THE NATURAL SCIENCES AND ENGINEERING IN THE UNITED STATES SINCE ABOUT 1967. DISCUSSED ARE RECENT EMPLOYMENT CHANGES, THE SOCIAL ROLE OF SCIENTISTS, AND FUTURE NEEDS FOR SCIENTISTS. (AUTHOR/RM)
JOURNAL CITATION: SCIENCE; 186: 4163; 561-508

ACCESSION NUMBER: EJ109864
CLEARINGHOUSE ACCESSION NUMBER: SE512326
PUBLICATION DATE: OCT 74
TITLE: COMMERCIAL NUCLEAR STEAM-ELECTRIC POWER PLANTS, PART II
PERSONAL AUTHOR: SHORE, FERDINAND J.
DESCRIPTOR: *ENERGY; *RADIATION; *RADIATION EFFECTS; *SCIENCE EDUCATION; COLLEGE SCIENCE; NUCLEAR PHYSICS; PHYSICS; SAFETY; SECONDARY SCHOOL SCIENCE; *NUCLEAR POWER PLANTS
ISSUE: CIJE1975
ABSTRACT: PRESENTS THE PROS AND CONS OF NUCLEAR POWER SYSTEMS. INCLUDE A DISCUSSION OF THE INSTITUTIONAL STATUS OF THE AEC, AEC REGULATORY RECORD, ROUTINE LOW-LEVEL RADIATION HAZARDS, TRANSPORT OF RADIOACTIVE MATERIALS, STORAGE OF WASTES, AND URANIUM RESOURCES AND ECONOMICS OF SUPPLY. (GS)
JOURNAL CITATION: PHYSICS TEACHER; 12: 7: 411-420

ACCESSION NUMBER: EJ109896
CLEARINGHOUSE ACCESSION NUMBER: SE512425
PUBLICATION DATE: SEP 74
TITLE: CHEMICAL INDUSTRY INFORMATION
PERSONAL AUTHOR: VOKINS, M.
DESCRIPTOR: *CHEMISTRY; *INDUSTRY; *WORLD PROBLEMS; AIR POLLUTION CONTROL; ENERGY CONSERVATION; NATURAL RESOURCES; POLLUTION; SCIENCE EDUCATION; TECHNOLOGICAL ADVANCEMENT; *CLUB OF ROME; UNITED KINGDOM
ISSUE: CIJE1975
ABSTRACT: DISCUSSES THE REPORT FROM THE CLUB OF ROME IN RELATION TO THE CHEMICAL INDUSTRY AND IMPLICATIONS FOR THE FUTURE REGARDING ENERGY AND POLLUTION PROBLEMS. (BR)
JOURNAL CITATION: SCHOOL SCIENCE REVIEW; 56: 194: 99-109

ACCESSION NUMBER: EJ109901
CLEARINGHOUSE ACCESSION NUMBER: SE512454
PUBLICATION DATE: DEC 74
TITLE: DO ENVIRONMENTAL AND ENERGY GOALS CLASH?
DESCRIPTOR: *ECONOMICS; *ENERGY; *ENVIRONMENT; *FUELS; *NATURAL RESOURCES; AIR POLLUTION CONTROL; ECOLOGY; ENVIRONMENTAL RESEARCH; POLLUTION; SCIENTIFIC RESEARCH; NINTH WORLD ENERGY CONFERENCE
ISSUE: CIJE1975
ABSTRACT: TO MEET ENERGY NEEDS, THE WORLD'S ENERGY BASE MUST BE BROADLY DIVERSIFIED. THIS DIVERSIFICATION, INCLUDING SUCH POSSIBILITIES AS FOSSIL FUELS, NUCLEAR, SOLAR, GEOTHERMAL, TIDAL AND AEOLIAN ENERGY, MUST PROCEED WITHOUT UNDUE ENVIRONMENTAL DAMAGE AND BE ECONOMICALLY FEASIBLE. COMPROMISES BETWEEN ENERGY, ECONOMICS AND THE ENVIRONMENT WILL HAVE TO BE MADE. (BT)
JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 8: 13: 1069-1071

ACCESSION NUMBER: EJ109916
CLEARINGHOUSE ACCESSION NUMBER: SE512496
PUBLICATION DATE: NOV/DEC 74
TITLE: ENERGY SLAVES AND ENVIRONMENTAL POLLUTION
PERSONAL AUTHOR: BLANC, SAM S.
DESCRIPTOR: *ELECTROMECHANICAL TECHNOLOGY; *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *POLLUTION; ELECTRICITY; ENVIRONMENTAL INFLUENCES; SCIENCE EDUCATION; TECHNOLOGY
ISSUE: CIJE1975
ABSTRACT: MODERN MAN PAYS A PRICE, POLLUTION, WITH THE DEPENDENCY SHIFT FROM HUMANS AS CONVERTERS OF ENERGY FOR WORK TO MACHINES AS CONVERTERS OF ENERGY. EMPHASIS IS PLACED ON ELECTROMECHANICAL APPLIANCES AND THEIR RESPECTIVE POWER RATINGS. (EB)
JOURNAL CITATION: SCIENCE AND CHILDREN; 12: 3: 13-14

ACCESSION NUMBER: EJ109940
CLEARINGHOUSE ACCESSION NUMBER: SE512520
PUBLICATION DATE: DEC 74
TITLE: PUSH IS ON FOR MORE OIL FROM OLD WELLS
DESCRIPTOR: *CHEMICAL INDUSTRY; *ENERGY; *PETROLEUM INDUSTRY; *TECHNOLOGY; ENGINEERING; ENVIRONMENTAL EDUCATION; INDUSTRY; SCIENCES
ISSUE: CIJE1975
ABSTRACT: THE ARTICLE REPORTS THE THINKING OF VARIOUS INDUSTRY SPOKESMEN RELATED TO THE IMPROVEMENT OF THE NATIONAL FUEL PICTURE. ESTIMATES ARE STATED IN REFERENCE TO RECOVERY EFFICIENCY. ONLY 35 PERCENT IMPROVEMENT IN YIELD IS ESTIMATED OR EXPECTED. TECHNIQUES SUCH AS MARATHON OIL'S MARAFLOOD PROCESS, ARE BRIEFLY DESCRIBED. (EB)
JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 52: 50: 26-27

ACCESSION NUMBER: EJ109954
CLEARINGHOUSE ACCESSION NUMBER: SE512550
PUBLICATION DATE: JAN/FEB 75
TITLE: LIGHT ENERGY INTO HEAT ENERGY
PERSONAL AUTHOR: WIDICK, PAUL R.
DESCRIPTOR: *ENERGY; *LIGHT; *SCIENCE ACTIVITIES; *SCIENCE EQUIPMENT; HEAT; INSTRUCTION; INSTRUCTIONAL MATERIALS; SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE
ISSUE: CIJE1975
ABSTRACT: DESCRIBES EQUIPMENT SET UP AND EXPERIMENT OBJECTIVES, VARIABLES, ANALYSES OF DATA AS WELL AS DATA INTERPRETATION. DEALS WITH SURFACE COLORS BESIDES THE CLASSICAL EXAMPLES OF BLACK AND WHITE. (BR)
JOURNAL CITATION: SCIENCE ACTIVITIES; 12: 1: 37-38

ACCESSION NUMBER: EJ110311
CLEARINGHOUSE ACCESSION NUMBER: AA519799
PUBLICATION DATE: F/W 74
TITLE: ART AND THE ENERGY CRISIS
PERSONAL AUTHOR: WINES, JAMES
DESCRIPTOR: *ART; *ENERGY; *PROBLEM SOLVING; *FUTURES (OF SOCIETY); *SOCIAL PLANNING; POLICY FORMATION; COMMUNITY COOPERATION
ISSUE: CIJE1975
ABSTRACT: AUTHOR PROVIDED A LIST THAT IS A SPECULATIVE OUTLINE OF HOW THE ENERGY AWARENESS MIGHT INFLUENCE THE ARTS IN THE IMMEDIATE FUTURE. (AUTHOR/RK)
JOURNAL CITATION: ARTS IN SOCIETY; 11: 3: 427-35

ACCESSION NUMBER: EJ110911
CLEARINGHOUSE ACCESSION NUMBER: EA505651
PUBLICATION DATE: JAN 75
TITLE: THE DESIGN PROFESSIONS: A NEW COMMITMENT
PERSONAL AUTHOR: MARSHALL, WILLIAM, JR.
DESCRIPTOR: *DESIGNERS; *PROFESSIONAL PERSONNEL; *ARCHITECTS; *ENGINEERS; *PROFESSIONAL RECOGNITION; ECONOMIC CLIMATE; ENERGY CONSERVATION; CONSERVATION (ENVIRONMENT); RECYCLING; STANDARDS
ISSUE: CIJE1975
ABSTRACT: THERE ARE MANY COMPELLING REASONS FOR ENGINEERS, ARCHITECTS, AND OTHER DESIGNERS TO MAKE AND FULFILL COMMITMENTS TO PARTICIPATION AND LEADERSHIP IN COMMUNITY DECISIONMAKING. (AUTHOR/MLF)
JOURNAL CITATION: CONSULTING ENGINEER; 44: 1: 46-49

ACCESSION NUMBER: EJ110960
 CLEARINGHOUSE ACCESSION NUMBER: EA505701
 PUBLICATION DATE: FEB 75
 TITLE: ENERGY GUIDELINES FOR SCHOOLS
 PERSONAL AUTHOR: STEPHAN, EDWARD
 DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION; *SCHOOL MAINTENANCE; *BUILDING OPERATION; *FACILITY CASE STUDIES; *COST EFFECTIVENESS; *SIMULATION; *ELEMENTARY SECONDARY EDUCATION
 ISSUE: CIJE1975
 ABSTRACT: A DETAILED STUDY BY EDUCATIONAL FACILITIES LABORATORIES (EFL) AND THE FAIRFAX COUNTY, VIRGINIA, SCHOOL SYSTEM SHOWS WHICH CHANGES IN OPERATIONAL PROCEDURES, MAINTENANCE PRACTICES, AND BUILDINGS WOULD YIELD SIGNIFICANT SAVINGS IN ENERGY CONSUMPTION. (AUTHOR/MLF)
 JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 47: 61 51-53

ACCESSION NUMBER: EJ111455
 CLEARINGHOUSE ACCESSION NUMBER: SE512232
 PUBLICATION DATE: JUL-SEP 74
 TITLE: COMMENT
 PERSONAL AUTHOR: MANGIN, JEAN-PHILIPPE
 DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES; *POLLUTION; *SOCIAL PROBLEMS; *INSTRUCTIONAL MATERIALS; *SCIENCE EDUCATION; *SECONDARY SCHOOL SCIENCE
 ISSUE: CIJE1975
 ABSTRACT: ADVOCATES THAT SCIENTISTS SET THEIR IMAGINATIONS TO WORK AND ASSUME LEADING ROLE IN FINDING STANDBY SOLUTIONS TO IMPENDING PROBLEMS SUCH AS DRINKING WATER SUPPLY, FOODSTUFFS, AND ENERGY. (GS)
 JOURNAL CITATION: IMPACT OF SCIENCE ON SOCIETY; 24: 31 195-201

ACCESSION NUMBER: EJ111458
 CLEARINGHOUSE ACCESSION NUMBER: SE512235
 PUBLICATION DATE: JUL-SEP 74
 TITLE: MAN AND THE BIOSPHERE
 PERSONAL AUTHOR: BRABYN, HOWARD
 DESCRIPTOR: *CURRICULUM; *ENVIRONMENTAL EDUCATION; *OBJECTIVES; *PROGRAM DESCRIPTIONS; *BIOLOGY; *ENERGY; *SCIENCE EDUCATION; *SECONDARY SCHOOL SCIENCE; *MAN AND THE BIOSPHERE; *MAB
 ISSUE: CIJE1975
 ABSTRACT: PRESENTS THE OBJECTIVES OF THE MAB PROGRAM, DESCRIBES "CORE" MATERIAL THAT MAKES THE PROGRAM OF INTERNATIONAL VALUE, AND REPORTS A FEATURE WHEREIN SCIENTISTS ARE BEING ASKED TO MAKE BROAD SOCIAL JUDGMENTS ABOUT THE WORK THEY ARE DOING. (GS)
 JOURNAL CITATION: IMPACT OF SCIENCE ON SOCIETY; 24: 31 221-223

ACCESSION NUMBER: EJ111459
 CLEARINGHOUSE ACCESSION NUMBER: SE512236
 PUBLICATION DATE: JUL-SEP 74
 TITLE: THE PROBLEM OF TECHNICAL PROGRESS AND MINERAL RESOURCES
 PERSONAL AUTHOR: LUKASHEV, KONSTANTIN I.
 DESCRIPTOR: *EARTH SCIENCE; *ENERGY; *NATURAL RESOURCES; *PREDICTION; *COLLEGE SCIENCE; *INSTRUCTIONAL MATERIALS; *METALS; *SCIENCE EDUCATION; *SECONDARY SCHOOL SCIENCE
 ISSUE: CIJE1975
 ABSTRACT: EXAMINES THE ESTIMATES OF KNOWN POTENTIAL RESERVES OF THE MAJOR RAW MATERIALS, FUTURE SOURCES THEREOF, THE GEOLOGICAL AND TECHNOLOGICAL PROBLEMS ASSOCIATED WITH THESE, THE MANUFACTURE OF ARTIFICIAL MINERALS, AND INTERNATIONAL COOPERATION IN THIS SPHERE. (AUTHOR/GS)
 JOURNAL CITATION: IMPACT OF SCIENCE ON SOCIETY; 24: 31 225-236

ACCESSION NUMBER: EJ111462
 CLEARINGHOUSE ACCESSION NUMBER: SE512239
 PUBLICATION DATE: JUL-SEP 74
 TITLE: IS SOLAR ENERGY THE FUEL OF THE FUTURE?
 PERSONAL AUTHOR: CETINCELİK, MAHAMMER
 DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *PHYSICS; *SOLAR RADIATION; *POLLUTION; *SCIENCE EDUCATION; *SECONDARY SCHOOL SCIENCE
 ISSUE: CIJE1975
 ABSTRACT: DESCRIBES THE PRESENT DISTRIBUTION OF SOLAR ENERGY, TRACES ITS USE THROUGH HISTORY, EXPLORES ITS

POTENTIAL UTILIZATION IN THE FUTURE, AND PRESENTS THE EFFECTS OF THE USE OF SOLAR ENERGY ON POLLUTION. (GS)
 JOURNAL CITATION: IMPACT OF SCIENCE ON SOCIETY; 24: 31 261-266

ACCESSION NUMBER: EJ111501
 CLEARINGHOUSE ACCESSION NUMBER: SE512446
 PUBLICATION DATE: DEC 74
 TITLE: REPORT CARD ON NUCLEAR POWER
 PERSONAL AUTHOR: NOVICK, SHELDON
 DESCRIPTOR: *ELECTRICITY; *ENERGY; *ENVIRONMENT; *ENVIRONMENTAL RESEARCH; *NUCLEAR PHYSICS; *ECONOMICS; *RADIATION; *SAFETY; *TECHNOLOGY; *NUCLEAR REACTORS
 ISSUE: CIJE1975
 ABSTRACT: PROBLEMS FACING THE NUCLEAR POWER INDUSTRY INCLUDE SKYROCKETING CONSTRUCTION COSTS, TECHNICAL FAILURES, FUEL SCARCITY, POWER PLANT SAFETY, AND THE DISPOSAL OF NUCLEAR WASTES. POSSIBLE SOLUTIONS INCLUDE: REDUCTIONS IN NUCLEAR POWER PLANT CONSTRUCTION, A COMPLETE MORATORIUM ON NEW PLANT CONSTRUCTION, THE CONSTRUCTION OF FAST BREEDER REACTORS AND THE PRIVATE OWNERSHIP OF ENRICHMENT TECHNOLOGY. (BT)
 JOURNAL CITATION: ENVIRONMENT; 16: 10: 6-12

ACCESSION NUMBER: EJ111503
 CLEARINGHOUSE ACCESSION NUMBER: SE512448
 PUBLICATION DATE: DEC 74
 TITLE: FERMENT IN TECHNOLOGY
 PERSONAL AUTHOR: CROSSLAND, JANICE
 DESCRIPTOR: *AGRICULTURAL RESEARCH PROJECTS; *CHEMISTRY; *ENERGY; *ENVIRONMENTAL RESEARCH; *RECYCLING; *MICROBIOLOGY; *NATURAL RESOURCES; *PETROLEUM INDUSTRY; *POLLUTION; *WASTE DISPOSAL
 ISSUE: CIJE1975
 ABSTRACT: A POLLUTION-REDUCING AND ENERGY-SAVING ALTERNATIVE TO PETROLEUM USE COULD BE THE FERMENTATION INDUSTRY AND OTHER TECHNOLOGIES BASED ON THE USE OF RENEWABLE RESOURCES. EXPANSION OF THE FERMENTATION INDUSTRY COULD REDUCE OUR DEPENDENCE ON PETROLEUM, REDUCE GROWING WASTE DISPOSAL PROBLEMS, AND HELP SOLVE WORLD FOOD SHORTAGES. (BT)
 JOURNAL CITATION: ENVIRONMENT; 16: 10: 17-20,25-30

ACCESSION NUMBER: EJ111506
 CLEARINGHOUSE ACCESSION NUMBER: SE512483
 PUBLICATION DATE: NOV 74
 TITLE: SOLAR AND GEOTHERMAL ENERGY: NEW COMPETITION FOR THE ATOM
 PERSONAL AUTHOR: CARTER, LUTHER J.
 DESCRIPTOR: *ENERGY; *FEDERAL GOVERNMENT; *RESEARCH; *ENERGY CONSERVATION; *RESOURCE MATERIALS; *SOLAR ENERGY; *GEOTHERMAL ENERGY
 ISSUE: CIJE1975
 ABSTRACT: DESCRIBES NEW EMPHASIS ON RESEARCH INTO SOLAR AND GEOTHERMAL ENERGY RESOURCES BY GOVERNMENTAL ACTION AND RECENT LEGISLATION AND THE DECREASED EMPHASIS ON ATOMIC POWER IN SUPPLEMENTING CURRENT ENERGY SHORTAGES. (BR)
 JOURNAL CITATION: SCIENCE; 186: 4166: 811-13

ACCESSION NUMBER: EJ111513
 CLEARINGHOUSE ACCESSION NUMBER: SE512537
 PUBLICATION DATE: JAN 75
 TITLE: \$12 MILLION GRANTED FOR RESOURCE STUDY
 DESCRIPTOR: *ENERGY CONSERVATION; *ENVIRONMENTAL RESEARCH; *NATURAL RESOURCES; *RESEARCH; *RESOURCE ALLOCATIONS; *CHEMISTRY; *RESOURCES; *SCIENCE EDUCATION; *FORD FOUNDATION
 ISSUE: CIJE1975
 JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53: 1: 9

ACCESSION NUMBER: EJ111515
 CLEARINGHOUSE ACCESSION NUMBER: SE512539
 PUBLICATION DATE: JAN 75
 TITLE: ORGANOMETALLIC POLYMERS TARGETED AT BARNACLES
 DESCRIPTOR: *CHEMICAL INDUSTRY; *ENERGY CONSERVATION; *ENERGY; *MARINE BIOLOGY; *OCEANOLOGY; *CHEMISTRY; *FUELS; *ORGANIC CHEMISTRY
 ISSUE: CIJE1975
 ABSTRACT: NAVY SCIENTISTS SUGGEST A GROUP OF COMPOUNDS SHOW PROMISE FOR KEEPING BARNACLES AND OTHER MARINE ORGANISMS OFF SHIP HULLS, REDUCING FUEL USE DUE TO HULL DRAG AND THUS REDUCING FUEL COST. (AUTHOR/EB)

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53; 1: 18-19

ACCESSION NUMBER: EJ112199

CLEARINGHOUSE ACCESSION NUMBER: CE502579

PUBLICATION DATE: FEB 75

TITLE: POSTSECONDARY EDUCATORS HEAR ENERGY OFFICIAL

DESCRIPTOR: *VOCATIONAL EDUCATION; *POST SECONDARY EDUCATION; *SPEECHES; *ENERGY; *JOB PLACEMENT; DEPLETED RESOURCES; VOCATIONAL FOLLOWUP; STATE SURVEYS; PROGRAM EVALUATION; COMMUNITY COLLEGE; FLORIDA; MICHIGAN

ISSUE: CIJE1975

ABSTRACT: THE ARTICLE REPORTS JOHN L. BAIRD'S REVIEW OF THE REPERCUSSIONS OF THE ENERGY CRISIS. OTHER SPEECHES SUMMARIZED DEAL WITH FOLLOW-UP AND PLACEMENT IN FLORIDA (WHERE IT'S THE LAW) AND MICHIGAN'S COMPREHENSIVE ASSESSMENT OF OCCUPATIONAL PROGRAMS IN ALL PUBLIC COMMUNITY COLLEGES. (AUTHOR/AJ)

JOURNAL CITATION: AMERICAN VOCATIONAL JOURNAL; 50; 2: 89-90

ACCESSION NUMBER: EJ112473

CLEARINGHOUSE ACCESSION NUMBER: EA505827

PUBLICATION DATE: MAR 75

TITLE: FOCUS ON ENERGY: SCHOOLS ASKED FOR HELP IN ENERGY STUDY

PERSONAL AUTHOR: ANDERSON, CARL R.; STANLEY, PRESTON O.

DESCRIPTOR: *NATIONAL SURVEYS; *ENERGY CONSERVATION; *EDUCATIONAL FACILITIES; ENERGY; ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1975

ABSTRACT: DESCRIBES PROCEDURES TO BE FOLLOWED IN A NATIONAL SURVEY OF ENERGY USE AND CONSERVATION IN THE PUBLIC SCHOOLS. A SERIES OF POLICY OPTIONS WILL BE DEVELOPED FROM THE INFORMATION ACQUIRED FROM THE SURVEY. (PUBLISHED BY ASSOCIATION OF SCHOOL BUSINESS OFFICERS, 2424 W. LAWRENCE AVE., CHICAGO, ILLINOIS 60625) (AUTHOR/DN)

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS; 41; 2: 54-55

ACCESSION NUMBER: EJ113097

CLEARINGHOUSE ACCESSION NUMBER: SE512177

PUBLICATION DATE: 74

TITLE: WORKING AT WASTE IN LEISURE

PERSONAL AUTHOR: BRYAN, HOBSON

DESCRIPTOR: *CONSUMER ECONOMICS; *ENERGY CONSERVATION; *LEISURE TIME; *SOCIAL VALUES; ENVIRONMENTAL INFLUENCES; NATURAL RESOURCES; SOCIAL INFLUENCES; WASTES

ISSUE: CIJE1975

JOURNAL CITATION: JOURNAL OF ENVIRONMENTAL EDUCATION; 6; 1: 20-22

ACCESSION NUMBER: EJ113138

CLEARINGHOUSE ACCESSION NUMBER: SE512386

PUBLICATION DATE: NOV 74

TITLE: HOME HEATING FUEL CONSERVATION STUDIES

PERSONAL AUTHOR: WOODYARD, JAMES R.

DESCRIPTOR: *ENERGY; *FUELS; *HEATING; *PHYSICS; ELEMENTARY SCHOOL SCIENCE; INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; SCIENCE ACTIVITIES; SECONDARY SCHOOL SCIENCE

ISSUE: CIJE1975

JOURNAL CITATION: PHYSICS TEACHER; 12; 8: 482-484

ACCESSION NUMBER: EJ113139

CLEARINGHOUSE ACCESSION NUMBER: SE512387

PUBLICATION DATE: NOV 74

TITLE: HEAT FLOW AND HOME HEATING ECONOMY

PERSONAL AUTHOR: BARTLETT, ALBERT A.; DREITELIN, JOSEPH

DESCRIPTOR: *ENERGY; *HEATING; *MODELS; *SECONDARY SCHOOL SCIENCE; ELECTRICITY; INSTRUCTIONAL MATERIALS; PHYSICS

ISSUE: CIJE1975

JOURNAL CITATION: PHYSICS TEACHER; 12; 8: 484-485

ACCESSION NUMBER: EJ113178

CLEARINGHOUSE ACCESSION NUMBER: SE512552

PUBLICATION DATE: JAN 75

TITLE: COAL CAN BE A CLEAN FUEL

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENERGY; *FUELS;

*POLLUTION; ECONOMICS; ENVIRONMENT; FUEL CONSUMPTION; NATURAL RESOURCES; PUBLIC HEALTH; WASTE DISPOSAL; *COAL

ISSUE: CIJE1975

ABSTRACT: REDEVELOPMENT AND EXPANSION OF UNITED STATES COAL RESOURCES ARE ECONOMIC NECESSITIES. ENVIRONMENTALISTS' OBJECTIONS TO THE LESS EXPENSIVE, AVAILABLE UNITED STATES COAL, THAT INTRODUCES LARGE AMOUNTS OF SOX AND PARTICULATES INTO THE AIR, MAY BE OVERCOME WITH THE OPTIONS OF COAL CLEANING, TALL STACKS, MATERIAL RECOVERY AND STACK CLEANING. (BT)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 9; 1: 18-19

ACCESSION NUMBER: EJ113181

CLEARINGHOUSE ACCESSION NUMBER: SE512555

PUBLICATION DATE: JAN 75

TITLE: ENERGY IMPLICATIONS OF CLEANUP OPERATIONS

PERSONAL AUTHOR: HIRS, ERIC

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL RESEARCH; *POLLUTION; *WASTES; AIR POLLUTION CONTROL; ECONOMICS; THERMAL ENVIRONMENT; URBAN ENVIRONMENT; WATER POLLUTION CONTROL; NOISE POLLUTION

ISSUE: CIJE1975

ABSTRACT: ENERGY NEEDS FOR ENVIRONMENTAL CLEANUP ARE ASSESSED. AMONG THE CONCLUSIONS ARE: THE QUANTITIES OF ENERGY REQUIRED TO ACHIEVE VARIOUS ENVIRONMENTAL QUALITY GOALS ARE SMALL; ENERGY NEEDS FOR ENVIRONMENTAL PROTECTION CAN BE OFFSET BY CONSERVATION MEASURES AND THE CONCLUSIONS IN REGARD TO PRIMARY ENERGY CLOSELY CORRESPOND TO THOSE FOR ELECTRICAL ENERGY. (BT)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 9; 1: 25-28

ACCESSION NUMBER: EJ113296

CLEARINGHOUSE ACCESSION NUMBER: SE512893

PUBLICATION DATE: JUL 74

TITLE: CAST OUT HEAT

PERSONAL AUTHOR: SANDERCOCK, TED

DESCRIPTOR: *HEAT; *INSTRUCTION; *SECONDARY SCHOOL SCIENCE; ENERGY; GENERAL SCIENCE; PHYSICS; SCIENCE EDUCATION; TEACHING TECHNIQUES; THERMODYNAMICS; TEMPERATURE; *SOUTH AUSTRALIA

ISSUE: CIJE1975

ABSTRACT: DESCRIBES HOW TO TEACH ABOUT "HEAT" AND SUGGESTS DO'S AND DON'TS CONCERNING THE TERMINOLOGY AND IDEAS WHICH SURROUND THE CONCEPT OF HEAT, IN ORDER TO AVOID STUDENT CONFUSION AND MISCONCEPTION. (BR)

JOURNAL CITATION: SOUTH AUSTRALIAN SCIENCE TEACHERS JOURNAL; 74; 37-38

ACCESSION NUMBER: EJ113543

CLEARINGHOUSE ACCESSION NUMBER: AA520229

PUBLICATION DATE: SPR 75

TITLE: THE DESPAIRING OPTIMIST

PERSONAL AUTHOR: DUBOS, RENE

DESCRIPTOR: *ENERGY CONSERVATION; *ELECTRICITY; HUMAN LIVING; *PHYSICAL HEALTH; *AGRICULTURE

ISSUE: CIJE1975

ABSTRACT: AUTHOR EVALUATED THE EFFECTS OF ENERGY ON A SYSTEM OF LIVING. (RK)

JOURNAL CITATION: AMERICAN SCHOLAR; 44; 2: 174-80

ACCESSION NUMBER: EJ113773

CLEARINGHOUSE ACCESSION NUMBER: CE502676

PUBLICATION DATE: MAR 75

TITLE: NUCLEAR POWER PLANT TECHNICIAN

PERSONAL AUTHOR: RANDALL, GEORGE A.

DESCRIPTOR: *VOCATIONAL EDUCATION; *CURRICULUM DEVELOPMENT; *EDUCATIONAL NEEDS; *NUCLEAR PHYSICS; *ENGINEERING TECHNOLOGY; TRAINING; TECHNOLOGICAL ADVANCEMENT; EMPLOYMENT OPPORTUNITIES; EMPLOYMENT QUALIFICATIONS; *NUCLEAR POWER PLANT TECHNICIAN; NUCLEAR ENERGY OCCUPATIONS

ISSUE: CIJE1975

ABSTRACT: THE AUTHOR RECOGNIZES A BODY OF BASIC KNOWLEDGE IN NUCLEAR POWER PLANT TECHNOLOGY THAT CAN BE TAUGHT IN SCHOOL PROGRAMS, AND LISTS THE VARIOUS COURSES, AIMING TO FILL THE ANTICIPATED NEED FOR NUCLEAR-TRAINED MANPOWER--PERSONS HOLDING AN ASSOCIATE DEGREE IN ENGINEERING TECHNOLOGY. (AUTHOR/BP)

JOURNAL CITATION: AMERICAN VOCATIONAL JOURNAL; 50; 3: 44-6,48

ACCESSION NUMBER: EJ114207
CLEARINGHOUSE ACCESSION NUMBER: EA505901
PUBLICATION DATE: APR 75
TITLE: HEAT RECOVERY SYSTEMS FOR SCHOOLS
DESCRIPTOR: *HEATING; *ENERGY CONSERVATION; *SCHOOL DESIGN;
*CLIMATE CONTROL; *HEAT RECOVERY SYSTEMS
ISSUE: CIJE1975
ABSTRACT: HEAT RECOVERY SYSTEMS ARE OPERATING SUCCESSFULLY
IN CLIMATES RANGING FROM THAT OF FLORIDA TO THOSE OF
MICHIGAN AND NEW JERSEY. (AUTHOR/MLF)
JOURNAL CITATION: MODERN SCHOOLS; 4-7

ACCESSION NUMBER: EJ114209
CLEARINGHOUSE ACCESSION NUMBER: EA505903
PUBLICATION DATE: APR 75
TITLE: SCHOOL CONSTRUCTION BUILDS IN ENERGY MANAGEMENT
DESCRIPTOR: *ENERGY CONSERVATION; *SCHOOL CONSTRUCTION;
*ROOFING; *WINDOWS; *SCHOOL DESIGN; *BUILDING MATERIALS;
*ELEMENTARY SECONDARY EDUCATION; *INSULATION
ISSUE: CIJE1975
ABSTRACT: ATTENTION TO ROOFING SYSTEMS AND WINDOWS IS AN
IMPORTANT FACTOR IN MORE EFFICIENT ENERGY MANAGEMENT.
(AUTHOR/MLF)
JOURNAL CITATION: MODERN SCHOOLS; 10-12

ACCESSION NUMBER: EJ114210
CLEARINGHOUSE ACCESSION NUMBER: EA505904
PUBLICATION DATE: APR 75
TITLE: TIPS ON LIGHTING EFFICIENCY
DESCRIPTOR: *ENERGY CONSERVATION; *LIGHTING; *ILLUMINATION
LEVELS; *COST EFFECTIVENESS; *EQUIPMENT MAINTENANCE
ISSUE: CIJE1975
JOURNAL CITATION: MODERN SCHOOLS; 13

ACCESSION NUMBER: EJ114211
CLEARINGHOUSE ACCESSION NUMBER: EA505905
PUBLICATION DATE: MAR 75
TITLE: NEW CONCEPTS FOR RESIDENTIAL USE OF SOLAR ENERGY
PERSONAL AUTHOR: PAGE, CLINT
DESCRIPTOR: *SOLAR RADIATION; *ENERGY CONSERVATION;
*HOUSING; *FEDERAL LEGISLATION; *FUEL CONSUMPTION; *DEPLETED
RESOURCES; *STANDARDS; *PERFORMANCE CRITERIA
ISSUE: CIJE1975
ABSTRACT: DISCUSSES SOME OF THE RESULTS OF A GRANT PROGRAM
CONDUCTED BY THE AMERICAN INSTITUTE OF ARCHITECTS RESEARCH
CORPORATION AND THE DEPARTMENT OF HOUSING AND URBAN
DEVELOPMENT. (AUTHOR/MLF)
JOURNAL CITATION: AIA JOURNAL; 63; 3; 21-28

ACCESSION NUMBER: EJ114332
CLEARINGHOUSE ACCESSION NUMBER: FL507195
PUBLICATION DATE: DEC 74
TITLE: SOME ABBREVIATIONS FOR ENERGY UNITS IN FRANCE
PERSONAL AUTHOR: MYERS, HUGH
DESCRIPTOR: *WEIGHT; *ABBREVIATIONS; *FRENCH; *ENERGY;
*VOCABULARY; *MEASUREMENT; *TRANSLATION
ISSUE: CIJE1975
ABSTRACT: THIS IS A LIST AND DEFINITION OF RECENTLY
FORMULATED ABBREVIATIONS IN FRENCH FOR ENERGY UNITS. THIS
ARTICLE IS MEANT PRIMARILY TO BE OF BENEFIT TO TRANSLATORS.
(AM)
JOURNAL CITATION: META; 19; 4; 203-205

ACCESSION NUMBER: EJ114733
CLEARINGHOUSE ACCESSION NUMBER: SE512618
PUBLICATION DATE: OCT 74
TITLE: HAZARDS OF THE NUCLEAR FUEL CYCLE
PERSONAL AUTHOR: HOLDREN, JOHN P.
DESCRIPTOR: *ENERGY; *PUBLIC HEALTH; *RADIATION EFFECTS;
*SCIENCE MATERIALS; *PHYSICS; *POLLUTION; *RADIATION; *NUCLEAR
POWER
ISSUE: CIJE1975
ABSTRACT: OUTLINES THE STAGES OF THE NUCLEAR FUEL CYCLE
WHERE ROUTINE RADIATION RELEASES OCCUR AND WHERE NONROUTINE
RELEASES COULD OCCUR. EXAMINES THE IMPACT OF THESE

OCCURRENCES AND EMPHASIZES THE REGULATIONS, PRACTICES, AND
TECHNOLOGIES THAT PREVAIL IN THE UNITED STATES. (AUTHOR/GS)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30; 8;
14-23

ACCESSION NUMBER: EJ114735
CLEARINGHOUSE ACCESSION NUMBER: SE512621
PUBLICATION DATE: DEC 74
TITLE: PLUGGING THE ENERGY SIEVE
PERSONAL AUTHOR: RUBIN, MILTON D.
DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *ENERGY CONSERVATION;
*SCIENCE MATERIALS; *CONSUMER ECONOMICS; *ENERGY;
*MANUFACTURING INDUSTRY; *PHYSICS
ISSUE: CIJE1975
ABSTRACT: ATTEMPTS TO SHOW THE FEASIBILITY OF AN ENERGY
CONSERVATION POLICY BASED ON A GREATLY IMPROVED EFFICIENCY
OF USE OF ENERGY, CONSIDERS EFFICIENCY IN THE INDUSTRIAL,
RESIDENTIAL, COMMERCIAL, AND TRANSPORTATION SECTORS. (GS)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30;
10; 7-17

ACCESSION NUMBER: EJ114736
CLEARINGHOUSE ACCESSION NUMBER: SE512622
PUBLICATION DATE: DEC 74
TITLE: HOW MUCH LIGHT DO WE REALLY NEED?
PERSONAL AUTHOR: APPEL, JOHN; MACKENZIE, JAMES J.
DESCRIPTOR: *ENERGY CONSERVATION; *ILLUMINATION LEVELS;
*LIGHT; *SCIENCE MATERIALS; *ENERGY; *PHYSICS
ISSUE: CIJE1975
ABSTRACT: SUGGESTS THAT AN ALTERNATIVE MODE OF SPECIFYING
ILLUMINATION LEVELS (STUDYING INDIVIDUAL TASKS) BE USED TO
DETERMINE APPROPRIATE ILLUMINATION STANDARDS. (AUTHOR/GS)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30;
10; 18-24

ACCESSION NUMBER: EJ114737
CLEARINGHOUSE ACCESSION NUMBER: SE512623
PUBLICATION DATE: DEC 74
TITLE: ENERGY POLICY DECISION-MAKING: THE NEED FOR BALANCED
INPUT
PERSONAL AUTHOR: DEVOLPI, A.
DESCRIPTOR: *ENERGY; *POLICY FORMATION; *SCIENCE MATERIALS;
*PHYSICS; *NUCLEAR ENERGY; *ATOMIC ENERGY COMMISSION; *AEC
ISSUE: CIJE1975
ABSTRACT: INDICATES THAT THE CREDIBILITY OF
ENVIRONMENTALISTS AND NUCLEAR ADVOCATES HAS BEEN DAMAGED BY
MISINFORMED ALARMIST POSITIONS. ADVOCATES THE PUBLIC'S RIGHT
OF EQUAL STANDING ON ADVISORY COUNCILS IN THE AREAS OF
ENERGY DEVELOPMENT, ENVIRONMENTAL PROTECTION, AND PUBLIC
SAFETY. (GS)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30;
10; 29-33

ACCESSION NUMBER: EJ114738
CLEARINGHOUSE ACCESSION NUMBER: SE512624
PUBLICATION DATE: DEC 74
TITLE: POLLUTION BY ELECTRICAL TRANSMISSION
PERSONAL AUTHOR: YOUNG, LOUISE B.; YOUNG, H. PEYTON
DESCRIPTOR: *ELECTRICITY; *ENERGY; *PUBLIC HEALTH; *SCIENCE
MATERIALS; *POLLUTION; *RADIATION; *MAGNETIC FIELDS
ISSUE: CIJE1975
ABSTRACT: CONSIDERS HEALTH HAZARDS THAT MAY BE ASSOCIATED
WITH THE ELECTROMAGNETIC EFFECTS PRODUCED BY HIGH VOLTAGE
ELECTRIC TRANSMISSION LINES. (GS)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 30;
10; 34-38

ACCESSION NUMBER: EJ114753
CLEARINGHOUSE ACCESSION NUMBER: SE512670
PUBLICATION DATE: DEC 74
TITLE: THE ENERGY CRISIS: A NEW CHEMISTRY COURSE FOR
NONSCIENCE MAJORS
PERSONAL AUTHOR: PIRAINO, MARIE J.
DESCRIPTOR: *CHEMISTRY; *COLLEGE SCIENCE; *COURSE
DESCRIPTORS; *ENERGY; *SCIENCE COURSES; *COURSE CONTENT;
*ENVIRONMENTAL EDUCATION; *OBJECTIVES; *POPULATION GROWTH;
*SCIENCE EDUCATION
ISSUE: CIJE1975

ABSTRACT: DESCRIBES A COURSE STRUCTURED AROUND NUCLEAR ENERGY, POSSIBLE FUEL ENERGY, FOOD ENERGY, AND THE POPULATION EXPLOSION. THE COURSE USES CLASSROOM DISCUSSION AND LABORATORY SESSIONS TO STRESS BASIC CHEMICAL PRINCIPLES AND RELEVANCE TO THE STUDENT. A TOPICAL OUTLINE IS INCLUDED. (GS)

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 51; 12; 802-803

ACCESSION NUMBER: EJ114841

CLEARINGHOUSE ACCESSION NUMBER: SE513037

PUBLICATION DATE: DEC 74

TITLE: SOME IDEAS FOR "ENERGY" PROJECTS IN SCHOOLS AND COLLEGES

PERSONAL AUTHOR: O'REILLY, SEAN A.

DESCRIPTOR: *CURRICULUM DEVELOPMENT; *ENERGY; *STUDENT PROJECTS; COLLEGE SCIENCE; ENVIRONMENTAL EDUCATION; HIGHER EDUCATION; SCIENCE EDUCATION; SECONDARY EDUCATION; SECONDARY SCHOOL SCIENCE

ISSUE: CIJE1975

JOURNAL CITATION: SCHOOL SCIENCE REVIEW; 56; 195; 388-391

ACCESSION NUMBER: EJ114901

CLEARINGHOUSE ACCESSION NUMBER: SE513180

PUBLICATION DATE: FEB 75

TITLE: WORLD PERSPECTIVE ON ENERGY

PERSONAL AUTHOR: HODGES, LAURENT

DESCRIPTOR: *ECONOMIC DEVELOPMENT; *ENERGY; *STATISTICS; *WORLD PROBLEMS; GRAPHS; PHYSICS; *ENERGY CONSUMPTION

ISSUE: CIJE1975

ABSTRACT: ANALYZES THE COMMERCIAL ENERGY STATISTICS OF THE WORLD BY DIVIDING THE NATIONS INTO THREE GROUPS: DEVELOPED MARKET ECONOMY, DEVELOPED PLANNED ECONOMY, AND DEVELOPING NATIONS. (GS)

JOURNAL CITATION: PHYSICS TODAY; 28; 2; 9-10

ACCESSION NUMBER: EJ114905

CLEARINGHOUSE ACCESSION NUMBER: SE513226

PUBLICATION DATE: MAR 75

TITLE: TRANSPORTATION-- A MATTER OF LINKS

PERSONAL AUTHOR: CROWTHER, H. DAVID

DESCRIPTOR: *ENERGY CONSERVATION; *PLANNING COMMISSIONS; *TRANSPORTATION; GENERAL SCIENCE; PROBLEMS; SCIENCE MATERIALS; SECONDARY SCHOOL SCIENCE; *DEPARTMENT OF TRANSPORTATION; DOT

ISSUE: CIJE1975

ABSTRACT: PROVIDES MUCH BACKGROUND INFORMATION ON TRANSPORTATION PROBLEMS AND ISSUES AND PRESENTS THE POLICY DECISIONS MADE BY THE U.S. DEPARTMENT OF TRANSPORTATION WHICH DEVELOPED ITS POLICIES WITHIN THE REALM OF COMPLEX ECONOMIC AND POLITICAL CONSIDERATIONS. (BR)

JOURNAL CITATION: SCIENCE TEACHER; 42; 3; 16-19

ACCESSION NUMBER: EJ114918

CLEARINGHOUSE ACCESSION NUMBER: SE513242

PUBLICATION DATE: FEB 75

TITLE: PRESIDENT FORD'S ENERGY INITIATIVES

PERSONAL AUTHOR: ABELSON, PHILIP H.

DESCRIPTOR: *ENERGY; *FEDERAL GOVERNMENT; *GOVERNMENT ROLE; *SCIENCE MATERIALS; COLLEGE SCIENCE; ENVIRONMENTAL EDUCATION; HIGHER EDUCATION; *FOSSIL FUELS

ISSUE: CIJE1975

ABSTRACT: REFLECTS ON ENERGY INITIATIVES OF BOTH THE EXECUTIVE AND LEGISLATIVE BRANCHES. SUGGESTS SOME ACTIONS TO ACHIEVE ENERGY INDEPENDENCE. (GS)

JOURNAL CITATION: SCIENCE; 187; 4175; 391

ACCESSION NUMBER: EJ114922

CLEARINGHOUSE ACCESSION NUMBER: SE513246

PUBLICATION DATE: FEB 75

TITLE: NUCLEAR FUSION: THE NEXT BIG STEP WILL BE A TOKAMAK

PERSONAL AUTHOR: NETZ, WILLIAM D.

DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; *SCIENCE MATERIALS; *SCIENTIFIC RESEARCH; COLLEGE SCIENCE; HIGHER EDUCATION; SCIENCE EDUCATION

ISSUE: CIJE1975

ABSTRACT: DESCRIBES AN EXPERIMENTAL APPROACH FOR CONTROLLING FUSION THAT INVOLVES A TOROIDAL DEVICE THAT HOLDS AND HEATS REACTIVE ISOTOPES OF HYDROGEN WITH A

MAGNETIC FIELD. (GS)

JOURNAL CITATION: SCIENCE; 187; 4175; 421-423

ACCESSION NUMBER: EJ114966

CLEARINGHOUSE ACCESSION NUMBER: 50503649

PUBLICATION DATE: W 75

TITLE: TAPPING THE SUN'S ENERGY

PERSONAL AUTHOR: LEE, DAVID G.

DESCRIPTOR: *SOLAR RADIATION; *RESOURCE ALLOCATIONS; *SCIENTIFIC RESEARCH; *ENERGY CONSERVATION; *HEAT; ENVIRONMENTAL INFLUENCES; FUTURES (OF SOCIETY); ENVIRONMENTAL RESEARCH; INNOVATION

ISSUE: CIJE1975

ABSTRACT: ATTEMPTS TO UTILIZE NONPOLLUTING SOLAR ENERGY FOR HOME HEATING AND ELECTRICAL POWER ARE EXAMINED. (DE)

JOURNAL CITATION: SOCIAL SCIENCE RECORD; 12; 2; 13-15

ACCESSION NUMBER: EJ114971

CLEARINGHOUSE ACCESSION NUMBER: 50503674

PUBLICATION DATE: W 75

TITLE: ENVIRONMENTAL EDUCATION ACTIVITIES

PERSONAL AUTHOR: LELAH, JOEY J.

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *SOCIAL STUDIES; *LEARNING ACTIVITIES; *ENERGY CONSERVATION; *INTERDISCIPLINARY APPROACH; TEACHING TECHNIQUES; CURRICULUM DEVELOPMENT; EDUCATIONAL OBJECTIVES; SECONDARY EDUCATION

ISSUE: CIJE1975

ABSTRACT: THIRTEEN MULTIDISCIPLINARY, STUDENT INVOLVING TEACHING TECHNIQUES CENTER ON THE ENVIRONMENT AND PARTICULARLY THE NEED FOR ENERGY CONSERVATION, THROUGH CONCEPTS SUCH AS STEWARDSHIP, SCARCITY, PLANNING, VALUING, SURVIVAL, AND INTERDEPENDENCE. (DE)

JOURNAL CITATION: SOCIAL SCIENCE RECORD; 12; 2; 28-33

ACCESSION NUMBER: EJ115870

CLEARINGHOUSE ACCESSION NUMBER: EA505981

PUBLICATION DATE: APR 75

TITLE: USE LIFE-CYCLE COSTING TO ANALYZE BIDS

PERSONAL AUTHOR: STEPHAN, EDWARD

DESCRIPTOR: *COST EFFECTIVENESS; *BIDS; *ENERGY CONSERVATION; *SCHOOL PLANNING; CONSTRUCTION COSTS; *LIFE CYCLE COSTING

ISSUE: CIJE1975

ABSTRACT: FOR TOO LONG, CONTRACTS HAVE BEEN AWARDED TO THE LOW BIDDER BASED ON "FIRST" COSTS. IT'S TIME FOR A CHANGE. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 47; 8; 33-35

ACCESSION NUMBER: EJ116453

CLEARINGHOUSE ACCESSION NUMBER: RC501759

PUBLICATION DATE: DEC 74-JAN 75

TITLE: A BTU SAVED IS A BTU EARNED: PENNSYLVANIA VO-TECH SCHOOLS TRY TOTAL ENERGY

PERSONAL AUTHOR: MOORE, ELIZABETH C.

DESCRIPTOR: *CASE STUDIES; *ENERGY CONSERVATION; *EVALUATION; *EFFICIENCY; ADVANCED SYSTEMS; CONSERVATION EDUCATION; COSTS; FUELS; NEEDS; *TOTAL ENERGY SYSTEMS; WILKES BARRE AREA VOCATIONAL TECHNICAL SCHOOL

ISSUE: CIJE1975

ABSTRACT: THE WILKES-BARRE AREA VOCATIONAL TECHNICAL SCHOOL WHICH IS A TOTAL ENERGY INSTALLATION IS USED IN THIS ARTICLE TO ILLUSTRATE THE ADVANTAGES AND DISADVANTAGES OF TOTAL ENERGY SYSTEMS. (JC)

JOURNAL CITATION: APPALACHIA; 8; 3; 1-17

ACCESSION NUMBER: EJ116475

CLEARINGHOUSE ACCESSION NUMBER: SE512726

PUBLICATION DATE: JAN 75

TITLE: A COURSE CASE STUDY: NUCLEAR POWER GENERATION AND THE ENVIRONMENT

PERSONAL AUTHOR: SCHLESINGER, ALLEN B.

DESCRIPTOR: *COLLEGE SCIENCE; *COURSE DESCRIPTIONS; *ENERGY; *NUCLEAR PHYSICS; CURRICULUM DEVELOPMENT; ENVIRONMENT; HIGHER EDUCATION; OBJECTIVES; SCIENCE EDUCATION; NUCLEAR POWER GENERATION

ISSUE: CIJE1975

ABSTRACT: DESCRIBES A COURSE THAT USES THE FT. CALHOUN

NUCLEAR POWER PLANT AS A CASE STUDY. THE COURSE INVOLVES THREE COMPONENT PARTS: PHYSICS OF FISSION EVENTS, ENGINEERING REQUIREMENTS, AND ECONOMIC CONSIDERATIONS. ENVIRONMENTAL IMPACT FROM RADIATION AND THERMAL EFFLUENTS, AND THE IMPACT OF SOCIAL, POLITICAL AND LEGAL FACTORS. (GS)

JOURNAL CITATION: JOURNAL OF COLLEGE SCIENCE TEACHING; 4: 31 185-186

ACCESSION NUMBER: EJ116486

CLEARINGHOUSE ACCESSION NUMBER: SE512737

PUBLICATION DATE: JAN 75

TITLE: INSTRUCTIONAL MEDIA

PERSONAL AUTHOR: BARNARD, W. ROBERT, ED.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AUDIOVISUAL INSTRUCTION; *BIOCHEMISTRY; *ENERGY; *SCIENCE MATERIALS; COLLEGE SCIENCE; ENVIRONMENTAL EDUCATION; HIGHER EDUCATION; SCIENCE EDUCATION

ISSUE: CIJE1975

JOURNAL CITATION: JOURNAL OF COLLEGE SCIENCE TEACHING; 4: 31 226-228

ACCESSION NUMBER: EJ116502

CLEARINGHOUSE ACCESSION NUMBER: SE512855

PUBLICATION DATE: JAN 75

TITLE: FORD STANDS FAST ON TOUGH ENERGY PROGRAM

DESCRIPTOR: *ENERGY; *FEDERAL GOVERNMENT; *NATURAL RESOURCES; *PUBLIC POLICY; ECONOMIC CHANGE; RESEARCH; TECHNOLOGY; *FORD (GERALD R)

ISSUE: CIJE1975

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53: 41 15-16

ACCESSION NUMBER: EJ116503

CLEARINGHOUSE ACCESSION NUMBER: SE512856

PUBLICATION DATE: JAN 75

TITLE: NUCLEAR POWER KEY TO ENERGY CRUNCH

DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; *NATURAL RESOURCES; *PUBLIC POLICY; CHEMISTRY; PHYSICS; TECHNOLOGY; *NUCLEAR POWER

ISSUE: CIJE1975

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53: 41 16-17

ACCESSION NUMBER: EJ116504

CLEARINGHOUSE ACCESSION NUMBER: SE512857

PUBLICATION DATE: JAN 75

TITLE: ENOUGH WATER FOR 1985 ENERGY NEEDS

DESCRIPTOR: *ENERGY; *NATURAL RESOURCES; *PUBLIC POLICY; *WATER RESOURCES; PHYSICAL ENVIRONMENT

ISSUE: CIJE1975

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53: 41 17-18

ACCESSION NUMBER: EJ116505

CLEARINGHOUSE ACCESSION NUMBER: SE512858

PUBLICATION DATE: JAN 75

TITLE: STACK GAS SCRUBBER MAKES THE GRADE

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENERGY; *TECHNOLOGY; *UTILITIES; CHEMISTRY; FUELS; STACK GAS SCRUBBERS; SULFUR DIOXIDE

ISSUE: CIJE1975

ABSTRACT: DESCRIBES A YEAR LONG TEST OF SUCCESSFUL SULFUR DIOXIDE REMOVAL FROM STACK GAS WITH A CALCIUM OXIDE SLURRY. SLUDGE DISPOSAL PROBLEMS ARE DISCUSSED. COST IS ESTIMATED AT 0.6 MILL PER KWH NOT INCLUDING SLUDGE REMOVAL. A FLOW DIAGRAM AND EQUATIONS ARE INCLUDED. (GH)

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53: 41 22-24

ACCESSION NUMBER: EJ116506

CLEARINGHOUSE ACCESSION NUMBER: SE513060

PUBLICATION DATE: FEB 75

TITLE: OUTLOOK GRIM FOR U.S. ENERGY INDEPENDENCE

DESCRIPTOR: *DEPLETED RESOURCES; *ENERGY; *NATURAL RESOURCES; PETROLEUM INDUSTRY; RESOURCES; *PROJECT INDEPENDENCE

ISSUE: CIJE1975

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53: 7: 5

ACCESSION NUMBER: EJ116509

CLEARINGHOUSE ACCESSION NUMBER: SE513061

PUBLICATION DATE: FEB 75

TITLE: R & D PARES WELL IN TIGHT BUDGET PROPOSED BY PRESIDENT FORD

PERSONAL AUTHOR: ZERKEL, FRED H.

DESCRIPTOR: *BUDGETS; *FEDERAL GOVERNMENT; *FINANCIAL POLICY; *GOVERNMENT ROLES; *SCIENTIFIC RESEARCH; ENERGY; INSTITUTIONAL RESEARCH; LEGISLATION; RESEARCH PROBLEMS; ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION; ERDA

ISSUE: CIJE1975

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53: 7: 14-18

ACCESSION NUMBER: EJ116538

CLEARINGHOUSE ACCESSION NUMBER: SE513248

PUBLICATION DATE: FEB 75

TITLE: FORD'S FIRST BUDGET: DOD, ENERGY RED UP, HEALTH IS AILING

PERSONAL AUTHOR: WALSH, JOHN

DESCRIPTOR: *BUDGETS; *FEDERAL GOVERNMENT; *FINANCIAL SUPPORT; *GOVERNMENT ROLES; *SCIENTIFIC RESEARCH; ENERGY; FOUNDATION PROGRAMS; FINANCIAL POLICY; NATIONAL DEFENSE; NATIONAL SCIENCE FOUNDATION; NSF

ISSUE: CIJE1975

ABSTRACT: OUTLINES FORD'S BUDGET IN THE AREAS OF BASIC RESEARCH, ENERGY, SPACE, AND DEFENSE, AND REPORTS ON THE ADMINISTRATION'S OVERALL BUDGET STRATEGY. (GS)

JOURNAL CITATION: SCIENCE; 187: 4176: 518-520

ACCESSION NUMBER: EJ116539

CLEARINGHOUSE ACCESSION NUMBER: SE513249

PUBLICATION DATE: JAN 75

TITLE: DELAYS IN TAPPING ENERGY SOURCES

PERSONAL AUTHOR: ABELSON, PHILIP H.

DESCRIPTOR: *EDITORIALS; *ENERGY; *ENERGY CONSERVATION; *NATURAL RESOURCES; ECONOMIC FACTORS; PETROLEUM INDUSTRY; RESOURCE MATERIALS; *FOSSIL FUELS; NUCLEAR POWER

ISSUE: CIJE1975

ABSTRACT: SUMMARIZES FACTORS THAT WILL CREATE SEVERE ENERGY SHORTAGES BY 1980. INDICATES THAT CONSERVATION IS NOT ENOUGH, AND THE QUICKEST PATH TOWARD RELIEF IS THE EXPANSION OF SURFACE MINING OF LOW-SULFUR COAL IN THE ROCKY MOUNTAIN STATES. (GS)

JOURNAL CITATION: SCIENCE; 187: 4171: 17

ACCESSION NUMBER: EJ116541

CLEARINGHOUSE ACCESSION NUMBER: SE513251

PUBLICATION DATE: JAN 75

TITLE: IN ENERGY IMPASSE, CONSERVATION KEEPS POPPING UP

PERSONAL AUTHOR: GILLETTE, ROBERT

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *FEDERAL GOVERNMENT; *GOVERNMENT ROLES; *NATURAL RESOURCES; PETROLEUM INDUSTRY; *PROJECT INDEPENDENCE; NUCLEAR POWER

ISSUE: CIJE1975

ABSTRACT: PRESENTS THE POSITION THAT THE FEDERAL GOVERNMENT WILL HAVE TO TAKE A DIRECT HAND IN HOLDING DOWN DEMAND FOR ENERGY WHILE PROMOTING NEW SOURCES OF SUPPLY. INCREASED CONSUMPTION AND THE DIM SHORT-TERM PROSPECTS FOR MAJOR ALTERNATIVES TO OIL ARE CITED AS MAJOR PROBLEMS. (GS)

JOURNAL CITATION: SCIENCE; 187: 4171: 42-45

ACCESSION NUMBER: EJ116542

CLEARINGHOUSE ACCESSION NUMBER: SE513252

PUBLICATION DATE: JAN 75

TITLE: THE ENVIRONMENT, A "NATURE" CAUSE IN NEED OF A LIFT

PERSONAL AUTHOR: CARTER, LUTHER J.

DESCRIPTOR: *ENVIRONMENT; *ENERGY CONSERVATION; *GOVERNMENT ROLES; *LEGISLATION; *POLLUTION; AIR POLLUTION CONTROL; ENVIRONMENTAL EDUCATION; FEDERAL GOVERNMENT; LAND USE; NATURAL RESOURCES

ISSUE: CIJE1975

ABSTRACT: RECAPS GOVERNMENT ACTION IN THE AREAS OF LAND USE, STRIP MINING, AND DRINKING WATER LEGISLATION. OUTLINES POTENTIAL CONFLICT BETWEEN THE DEVELOPMENT OF ENERGY RESOURCES AND ENVIRONMENTAL VALUES. (GS)

JOURNAL CITATION: SCIENCE; 187: 4171: 45-48

ACCESSION NUMBER: EJ116544
CLEARINGHOUSE ACCESSION NUMBER: SE513262
PUBLICATION DATE: FEB 75
TITLE: ASSESSING CROSS-MEDIA IMPACTS
PERSONAL AUTHOR: RETQUAH, HOWARD; AND OTHERS
DESCRIPTOR: *ECOLOGICAL FACTORS; *ENVIRONMENT; *POLLUTION;
*RESEARCH; AIR POLLUTION CONTROL; ENERGY; ENVIRONMENTAL
RESEARCH; WASTES; WATER POLLUTION CONTROL; *ENVIRONMENTAL
QUALITY
ISSUE: CIJE1975
ABSTRACT: USING 1000 MW COAL-FIRED CENTRAL POWER STATIONS
AS AN EXAMPLE, THE IMPACTS UPON OTHER MEDIA (LAND, AIR,
WATER) ARE ANALYZED WHEN CONTROLS ARE IMPOSED ON ONE MEDIUM.
THE DEVELOPMENT OF A METHODOLOGY FOR ASSESSING THE
CROSS-MEDIA IMPACT OF SPECIFIC CONTROL TECHNOLOGIES OR
STRATEGIES IS ILLUSTRATED. (AUTHOR/BI)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 9:
21 118-120

ACCESSION NUMBER: EJ116546
CLEARINGHOUSE ACCESSION NUMBER: SE513264
PUBLICATION DATE: FEB 75
TITLE: HYDROGEN: A FUTURE ENERGY MEDIATOR?
DESCRIPTOR: *ENERGY; *ENVIRONMENT; *FUELS; *RESEARCH;
ELECTRICITY; ENVIRONMENTAL RESEARCH; TECHNOLOGICAL
ADVANCEMENTS; UTILITIES; *HYDROGEN
ISSUE: CIJE1975
ABSTRACT: HYDROGEN MAY BE THE FUEL TO HELP THE UNITED
STATES TO A NON FOSSIL ENERGY SOURCE. ALTHOUGH HYDROGEN MAY
NOT BE WIDELY USED AS A FUEL UNTIL AFTER THE TURN OF THE
CENTURY, SPECIAL APPLICATIONS MAY BECOME FEASIBLE IN THE
SHORT TERM. COSTS, USES, SAFETY, AND PRODUCTION METHODS ARE
DISCUSSED. (BT)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 9:
21 102-103

ACCESSION NUMBER: EJ116547
CLEARINGHOUSE ACCESSION NUMBER: SE513265
PUBLICATION DATE: FEB 75
TITLE: APPLYING PHYSICS TO CLEAN ENERGY NEEDS
DESCRIPTOR: *ENERGY; *ENVIRONMENT; *FUELS; *OCEANOLOGY;
*SOLAR RADIATION; ELECTRICITY; ENVIRONMENTAL RESEARCH; OCEAN
ENGINEERING; PHYSICS; WORLD PROBLEMS
ISSUE: CIJE1975
ABSTRACT: SOLAR AND OCEAN THERMAL ENERGY SOURCES OFFER REAL
POTENTIAL FOR AN ENVIRONMENTALLY CLEAN FUEL BY THE YEAR
2000. A REVIEW OF CURRENT RESEARCH CONTRACTS RELATING TO
OCEAN-THERMAL ENERGY COST REQUIREMENTS OF PLANT
CONSTRUCTION AND USES OF THE ELECTRICITY PRODUCED, SUCH AS
SYNTHESIZING AMMONIA AND SYNTHETIC FUELS, ARE DISCUSSED.
(BT)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 9:
21 104-105

ACCESSION NUMBER: EJ116592
CLEARINGHOUSE ACCESSION NUMBER: SE513411
PUBLICATION DATE: MAR 75
TITLE: ENERGY AND AIR POLLUTION: USA 1970-2020
PERSONAL AUTHOR: SMIL, VACLAV
DESCRIPTOR: *AIR POLLUTION CONTROL; *ENERGY; *ENVIRONMENT;
*SIMULATION; *UTILITIES; COMPUTERS; ENVIRONMENTAL RESEARCH;
FUELS; FUTURES (OF SOCIETY); POLLUTION
ISSUE: CIJE1975
ABSTRACT: THE UNITED STATES POWER INDUSTRY HAS ENTERED A
TRANSITORY PERIOD OF MAJOR CHANGES. UNCERTAINTIES AROUND
ABOUT FUTURE LEVELS OF AIR POLLUTION AND AIR POLLUTION
CONTROL. COMPUTER SIMULATIONS BASED ON THE BEST CURRENTLY
AVAILABLE CONSENSUS CAN REVEAL PATTERNS OF POSSIBLE FUTURE
ALTERNATIVES. THREE SCENARIOS REPRESENTING PROBABLE
DEVELOPMENTS ARE DISCUSSED IN DETAIL. (BT)

JOURNAL CITATION: JOURNAL OF THE AIR POLLUTION CONTROL
ASSOCIATION; 25: 3: 233-236

ACCESSION NUMBER: EJ116595
CLEARINGHOUSE ACCESSION NUMBER: SE513414
PUBLICATION DATE: MAR 75
TITLE: THE FATE OF VANADIUM IN AN URBAN AIR SHED: THE LOWER
DELAWARE RIVER VALLEY
PERSONAL AUTHOR: TULLAR, IRVING W.; SUFFET, IRWIN W.
DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENT;
*POLLUTION; *URBAN ENVIRONMENT; ECOLOGICAL FACTORS; ENERGY;
FUELS; PETROLEUM INDUSTRY; *VANADIUM
ISSUE: CIJE1975

JOURNAL CITATION: JOURNAL OF THE AIR POLLUTION CONTROL
ASSOCIATION; 25: 3: 282-286

ACCESSION NUMBER: EJ116610
CLEARINGHOUSE ACCESSION NUMBER: SE513462
PUBLICATION DATE: 74
TITLE: SOME REFLECTIONS CONCERNING THE ENERGETICS OF HUMAN
ECOLOGY
PERSONAL AUTHOR: JARDINE, D. K.
DESCRIPTOR: *ECOLOGY; *SCIENCE MATERIALS; *THERMODYNAMICS;
BIOLOGY; ENERGY; ENVIRONMENTAL EDUCATION; HIGHER EDUCATION;
SCIENCE EDUCATION; *BIODENERGETICS
ISSUE: CIJE1975
ABSTRACT: DISCUSSES THE EVIDENCE CONCERNING THE
RELATIONSHIP BETWEEN MAN'S TECHNOLOGICAL BEHAVIOR AND HIS
ECOSYSTEMS REGARDING THERMODYNAMIC PRINCIPLES CONCERNING THE
FOOD AND PEOPLE ISSUE. (BR)

JOURNAL CITATION: BIOLOGY AND HUMAN AFFAIRS; 39: 3: 45-49

ACCESSION NUMBER: EJ116630
CLEARINGHOUSE ACCESSION NUMBER: SE513493
PUBLICATION DATE: APR 75
TITLE: LET'S MAKE TEACHERS ENERGY EXPERTS BEFORE ACTIVISTS
PERSONAL AUTHOR: LOEFFLER, KATH
DESCRIPTOR: *BUSINESS RESPONSIBILITY; *ENERGY; *INSERVICE
TEACHER EDUCATION; BUSINESS; ENERGY CONSERVATION;
ENVIRONMENTAL EDUCATION; SCIENCE EDUCATION; SECONDARY
EDUCATION; ENERGY AND HUMAN ENVIRONMENT PROJECT
ISSUE: CIJE1975
ABSTRACT: IN A REBUTTAL TO AN EARLIER ARTICLE, THE AUTHOR
DESCRIBES EFFORTS BY THE BUSINESS COMMUNITY TO PROVIDE
TEACHERS WITH EDUCATIONAL MATERIALS IN THE NORTHWEST. (BR)

JOURNAL CITATION: SCIENCE TEACHER; 42: 4: 26-27

ACCESSION NUMBER: EJ117014
CLEARINGHOUSE ACCESSION NUMBER: CE502969
PUBLICATION DATE: MAY/JUN 75
TITLE: TECHNICIANS IN THE ENERGY PIPELINE: HOW MANY AND
WHAT KIND?
PERSONAL AUTHOR: HARRIS, NORMAN C.
DESCRIPTOR: *ENERGY; *SUBPROFESSIONALS; *TECHNOLOGICAL
ADVANCEMENTS; *LABOR SUPPLY; *ENGINEERING TECHNICIANS; ENERGY
CONSERVATION; ENVIRONMENTAL TECHNICIANS; COLLEGE CURRICULUM;
EDUCATIONAL NEEDS; TECHNICAL EDUCATION
ISSUE: CIJE1975
ABSTRACT: THE ARTICLE REVIEWS THE TYPES OF ENERGY
ESTIMATES FUTURE NEEDS FOR TECHNICIANS, AND DISCUSSES
CURRICULUM AND TRAINING NEEDS. (AG)

JOURNAL CITATION: TECHNICAL EDUCATION NEWS; 34: 3: 2-5

ACCESSION NUMBER: EJ117544
CLEARINGHOUSE ACCESSION NUMBER: EA506052
PUBLICATION DATE: MAY 75
TITLE: A BASIC COURSE ON SCHOOL LIGHTING
DESCRIPTOR: *LIGHTING; *ILLUMINATION LEVELS; *FLEXIBLE
LIGHTING DESIGN; *ENERGY CONSERVATION; *ELECTRICAL SYSTEMS;
ELEMENTARY SECONDARY EDUCATION
ISSUE: CIJE1975
ABSTRACT: TO UNDERSTAND THE IMPORTANCE OF THE INFLUENCE OF
EFFECTIVE LIGHTING ON LEARNING PATTERNS, WE NEED TO
UNDERSTAND WHAT EFFECTIVE LIGHTING MEANS. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS; 4:6-8

ACCESSION NUMBER: EJ117546
CLEARINGHOUSE ACCESSION NUMBER: EA506054
PUBLICATION DATE: MAY 75
TITLE: HIGH VISIBILITY IMPROVES ENERGY EFFICIENCY
DESCRIPTOR: *ENERGY CONSERVATION; *ELECTRICAL SYSTEMS;
*LIGHTING DESIGN; *ILLUMINATION LEVELS; *SCHOOL
HIGHER EDUCATION
ISSUE: CIJE1975
ABSTRACT: PROVIDING HIGH VISIBILITY AND SAVING ENERGY AT
THE SAME TIME CAN BE ACCOMPLISHED, AS THE DESIGN OF THESE
NEW SCHOOL BUILDINGS PROVES. (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS; 12-13

ACCESSION NUMBER: EJ117569
 CLEARINGHOUSE ACCESSION NUMBER: EA506077
 PUBLICATION DATE: MAY 75
 TITLE: ENERGY CONSERVATION, ENERGY BRIEFS
 DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION; *SCHOOL MAINTENANCE; *ELECTRICITY; *EQUIPMENT MAINTENANCE; *CONSERVATION EDUCATION; *ELEMENTARY SECONDARY EDUCATION; *HIGHER EDUCATION
 ISSUE: CIJE1975
 ABSTRACT: A COMPREHENSIVE ENERGY CONSERVATION PROGRAM AT COLLEGE OF THE HOLY CROSS HAS SAVED NEARLY ONE-THIRD OF THE FUEL OIL AND ONE-FIFTH OF THE ELECTRICITY USED AT THE COLLEGE. BRIEFS ON BOILERS, LIGHTS, DESIGN. (AUTHOR/MLP)
 JOURNAL CITATION: NATION'S SCHOOLS AND COLLEGES; 21: 51: 43-49-47

ACCESSION NUMBER: EJ117570
 CLEARINGHOUSE ACCESSION NUMBER: EA506078
 PUBLICATION DATE: MAY 75
 TITLE: NO COMPUTER? TRY WEDGING BUS ROUTES
 PERSONAL AUTHOR: ROBBINS, J. A.; TURNER, W. C.
 DESCRIPTOR: *STUDENT TRANSPORTATION; *BUS TRANSPORTATION; *FUEL CONSUMPTION; *ENERGY CONSERVATION; *SCHEDULING; *COST EFFECTIVENESS
 ISSUE: CIJE1975
 ABSTRACT: A TECHNIQUE FOR ROUTING SCHOOL BUSES DOES NOT REQUIRE A COMPUTER AND SAVES MILES, GAS, AND DOLLARS. (AUTHOR/MLP)
 JOURNAL CITATION: NATION'S SCHOOLS AND COLLEGES; 21: 51: 44-45

ACCESSION NUMBER: EJ117801
 CLEARINGHOUSE ACCESSION NUMBER: HE506460
 PUBLICATION DATE: JUN 75
 TITLE: ERDA INTERNAL DOCUMENT OUTLINES NEW R&D PLAN
 PERSONAL AUTHOR: GREENBERG, DANIEL S.
 DESCRIPTOR: *HIGHER EDUCATION; *RESEARCH PROJECTS; *PHYSICS; *ENERGY; *RESEARCH; *SCIENCES; *ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION; ERDA
 ISSUE: CIJE1975
 ABSTRACT: THE NEWLY CREATED ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION PLANS TO REORIENT ITS BASIC SCIENCE PROGRAM TOWARD GREATER INDUSTRIAL PARTICIPATION AND AN EFFORT TO INVOLVE THE HIGH-ENERGY PHYSICS COMMUNITY IN APPLIED RESEARCH PROJECTS. (AUTHOR/PG)
 JOURNAL CITATION: CHANGE; 71: 51: 49-50

ACCESSION NUMBER: EJ117895
 CLEARINGHOUSE ACCESSION NUMBER: IN501835
 PUBLICATION DATE: MAY 1 75
 TITLE: ENVIRONMENT UPDATE
 PERSONAL AUTHOR: SIENL, GEORGE H.
 DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ENERGY CONSERVATION; *LITERATURE REVIEWS; *FEDERAL LEGISLATION; *ANNOTATED BIBLIOGRAPHIES
 ISSUE: CIJE1975
 ABSTRACT: A REVIEW OF ENVIRONMENTAL LITERATURE AND DEVELOPMENTS IN 1975. (AUTHOR)
 JOURNAL CITATION: LIBRARY JOURNAL; 100: 9: 817-22

ACCESSION NUMBER: EJ118124
 CLEARINGHOUSE ACCESSION NUMBER: SE513184
 PUBLICATION DATE: FEB 75
 TITLE: TECHNOLOGY UTILIZATION: INCENTIVES AND SOLAR ENERGY
 PERSONAL AUTHOR: EZRA, ARTHUR A.
 DESCRIPTOR: *ENERGY; *FINANCIAL SUPPORT; *FEDERAL GOVERNMENT; *GOVERNMENT ROLE; *SCIENTIFIC RESEARCH; *INFORMATION DISSEMINATION; *LEGISLATION; *SOLAR RADIATION; *TECHNOLOGY
 ISSUE: CIJE1975
 ABSTRACT: A TECHNOLOGY DELIVERY SYSTEM (TDS) IS USED TO EXPLAIN THE ROLE OF INCENTIVES IN STIMULATING PUBLIC USE OF SOLAR ENERGY. SUMMARIZES THE APPLICATION, COMPONENTS, EXPERIMENTAL VERIFICATION, AND AGENCY RESPONSIBILITY FOR THESE INCENTIVES WITHIN THE CONCEPTUAL FRAMEWORK OF TDS. (GS)
 JOURNAL CITATION: SCIENCE; 187: 4178: 707-713

ACCESSION NUMBER: EJ118134
 CLEARINGHOUSE ACCESSION NUMBER: SE513234
 PUBLICATION DATE: JAN 75
 TITLE: FPC'S GLOOMY OUTLOOK ON GAS
 DESCRIPTOR: *ENERGY; *FUELS; *NATURAL RESOURCES; *PETROLEUM INDUSTRY; *POLICY FORMATION; *FEDERAL POWER COMMISSION; *FPC
 ISSUE: CIJE1975
 ABSTRACT: OUTLINES A FEDERAL POWER COMMISSION REPORT THAT LENDS CREDENCE TO CHARGES BY SEVERAL PROMINENT PETROLEUM RESEARCHERS THAT THE UNITED STATES GEOLOGICAL SURVEY HAS CONSISTENTLY AND HUGEY OVER ESTIMATED THE AMOUNT OF ECONOMICALLY RECOVERABLE OIL AND GAS LEFT TO BE DISCOVERED IN THE UNITED STATES. (AUTHOR/GS)
 JOURNAL CITATION: SCIENCE; 187: 4172: 191

ACCESSION NUMBER: EJ118137
 CLEARINGHOUSE ACCESSION NUMBER: SE513239
 PUBLICATION DATE: JAN 75
 TITLE: WHITE HOUSE PASSES NEW ENERGY STRATEGY
 DESCRIPTOR: *ENERGY; *FEDERAL GOVERNMENT; *GOVERNMENT ROLE; *PETROLEUM INDUSTRY; *FINANCIAL SUPPORT; *LEGISLATION; *SCIENTIFIC RESEARCH
 ISSUE: CIJE1975
 ABSTRACT: OUTLINES THE ENERGY STRATEGY OF THE DEMOCRATS AND DETAILS THE ENERGY PROPOSALS OF THE FORD ADMINISTRATION. THE ADMINISTRATION PLAN INVOLVES A COMPLEX SYSTEM OF TAXES AND TARIFFS AND A PROPOSED SYNTHETIC FUELS COMMERCIALIZATION PROGRAM. (GS)
 JOURNAL CITATION: SCIENCE; 187: 4174: 330-331

ACCESSION NUMBER: EJ118138
 CLEARINGHOUSE ACCESSION NUMBER: SE513240
 PUBLICATION DATE: JAN 75
 TITLE: KARL HESS: TECHNOLOGY WITH A HUMAN FACE
 PERSONAL AUTHOR: WADE, NICHOLAS
 DESCRIPTOR: *ACTION PROGRAMS (COMMUNITY); *ADULT EDUCATION; *PROGRAM DESCRIPTIONS; *TECHNOLOGY; *ENERGY OBJECTIVES; *COMMUNITY TECHNOLOGY
 ISSUE: CIJE1975
 ABSTRACT: DESCRIBES A PROJECT IN WHICH SCIENCE AND TECHNOLOGY ARE SHAPED DIRECTLY AND HUMANELY TO COMMUNITY NEEDS. ONE GOAL IS COMMUNITY SELF-RELIANCE BASED ON A SOFT TECHNOLOGY THAT DOES NOT PLACE STRESSES ON THE ENVIRONMENT, IS LOW IN ITS CAPITAL DEMANDS, AND DECENTRALIZING IN ITS SOCIAL IMPACT. (GS)
 JOURNAL CITATION: SCIENCE; 187: 4174: 332-334

ACCESSION NUMBER: EJ118144
 CLEARINGHOUSE ACCESSION NUMBER: SE513267
 PUBLICATION DATE: MAR 75
 TITLE: ENVIRONMENTAL IMPACT OF A GEOTHERMAL POWER PLANT
 PERSONAL AUTHOR: AXTMANN, ROBERT C.
 DESCRIPTOR: *ECOLOGY; *ENERGY; *POLLUTION; *ENVIRONMENTAL EDUCATION; *PUBLIC HEALTH; *THERMAL ENVIRONMENT; *GEOTHERMAL POWER; *POWER GENERATION
 ISSUE: CIJE1975
 ABSTRACT: PRESENTS A PHYSICAL DESCRIPTION OF A GEOTHERMAL POWER PLANT, DETAILS THE CHEMICAL AND THERMAL EFFLUENTS, AND EVALUATES THE PHYSICAL AND ECOLOGICAL EFFECTS OF THE PLANT. (GS)
 JOURNAL CITATION: SCIENCE; 187: 4179: 795-803

ACCESSION NUMBER: EJ118260
 CLEARINGHOUSE ACCESSION NUMBER: SE513656
 PUBLICATION DATE: APR 75
 TITLE: OFFSHORE OIL: SUPREME COURT RULING INTENSIFIED DEBATE
 DESCRIPTOR: *ENERGY; *GOVERNMENT ROLE; *NATURAL RESOURCES; *PETROLEUM INDUSTRY; *SUPREME COURT LITIGATION; *FEDERAL LEGISLATION; *OIL
 ISSUE: CIJE1975
 ABSTRACT: REPORTS ON A SUPREME COURT RULING GIVING THE FEDERAL GOVERNMENT JURISDICTION OVER SUBSTANTIAL AREAS OF THE OUTER CONTINENTAL SHELF (OCS) WHICH OPENS THE DOOR FOR A FEDERAL PROGRAM OF OCS LEASING. (GS)
 JOURNAL CITATION: SCIENCE; 188: 4184: 135,177

ACCESSION NUMBER: EJ118261
CLEARINGHOUSE ACCESSION NUMBER: SE513657
PUBLICATION DATE: APR 75
TITLE: ENERGY: WASHINGTON GETS A NEW PROPOSAL FOR USING H-BOMBS
PERSONAL AUTHOR: METZ, WILLIAM D.

DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; *PROGRAM PROPOSALS;
*SCIENTIFIC RESEARCH; *FINANCIAL SUPPORT; *RESEARCH PROPOSALS;
*SAFETY; *SCIENCE MATERIALS; *FUSION

ISSUE: CIJE1975

ABSTRACT: REPORTS ON A PROPOSAL FOR INTENSIVE STUDY OF A SYSTEM FOR PRODUCING REACTOR FUEL AND ELECTRICITY FROM REPEATED UNDERGROUND DETONATIONS OF THERMONUCLEAR EXPLOSIONS. (AUTHOR/GS)

JOURNAL CITATION: SCIENCE: 188: 4184: 136-137

ACCESSION NUMBER: EJ118277
CLEARINGHOUSE ACCESSION NUMBER: SE513723
PUBLICATION DATE: APR 75
TITLE: AN ENERGY CONFERENCE FOR LITTLE PEOPLE
PERSONAL AUTHOR: HANKLA, ALICE KIMBLER

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *ELEMENTARY SCHOOL SCIENCE; *PRESCHOOL EDUCATION;
*INTERDISCIPLINARY APPROACH; *PRESCHOOL CHILDREN; *SCIENCE EDUCATION

ISSUE: CIJE1975

ABSTRACT: DESCRIBES A TWO-DAY CONFERENCE WITH AN ASSEMBLY OF EIGHTY FOUR- AND FIVE-YEAR-OLD CHILDREN AS DELEGATES. THROUGH THIS CONFERENCE, STUDENTS LEARNED WHAT ENERGY IS, HOW IT WORKS AND DEvised METHODS OF ENERGY CONSERVATION. (EB)

JOURNAL CITATION: SCIENCE AND CHILDREN: 12: 7: 5-7

ACCESSION NUMBER: EJ118292
CLEARINGHOUSE ACCESSION NUMBER: SE513965
PUBLICATION DATE: MAY 75
TITLE: ALTERNATIVE STRATEGIES FOR CONTROL OF SULFUR DIOXIDE EMISSIONS
PERSONAL AUTHOR: MACDONALD, BRYCE I.

DESCRIPTOR: *AIR POLLUTION CONTROL; *ECONOMICS; *ENERGY;
*ENVIRONMENT; *UTILITIES; *POLLUTION; *STANDARDS; *WASTES;
*SULFUR DIOXIDE

ISSUE: CIJE1975

ABSTRACT: ACHIEVEMENT OF AIR QUALITY GOALS REQUIRES CAREFUL CONSIDERATION OF ALTERNATIVE CONTROL STRATEGIES IN VIEW OF NATIONAL CONCERNS WITH ENERGY AND THE ECONOMY. THREE STRATEGIES WHICH MIGHT BE USED BY COAL FIRED STEAM ELECTRIC PLANTS TO ACHIEVE AMBIENT AIR QUALITY STANDARDS FOR SULFUR DIOXIDE HAVE BEEN COMPARED AND THE ANALYSIS PRESENTED. (AUTHOR/BT)

JOURNAL CITATION: JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION: 25: 5: 525-528

ACCESSION NUMBER: EJ119203
CLEARINGHOUSE ACCESSION NUMBER: EA906133
PUBLICATION DATE: MAY 75
TITLE: ONE DISTRICT'S EXPERIENCE WITH FIXED PRICE/DESIGN BUILD
DESCRIPTOR: *SCHOOL CONSTRUCTION; *COST EFFECTIVENESS;
*COMMUNITY INVOLVEMENT; *EDUCATIONAL SPECIFICATIONS; *DESIGN BUILD APPROACH; *CONSTRUCTION (PROCESS); *ENERGY CONSERVATION

ISSUE: CIJE1975

ABSTRACT: FAIRFAX COUNTY (VA.) TRIED A UNIQUE EXPERIMENT IN AN EFFORT TO INTEGRATE THE FRAGMENTED SEGMENTS OF SCHOOL PLANNING, DESIGN, AND CONSTRUCTION. HERE'S HOW IT TURNED OUT. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 47: 9: 24-30,85-87

ACCESSION NUMBER: EJ119238
CLEARINGHOUSE ACCESSION NUMBER: EA906168
PUBLICATION DATE: JUN 75
TITLE: HOW TO SAVE SPACE-ENERGY-MONEY

DESCRIPTOR: *BUILDING DESIGN; *ENERGY CONSERVATION; *COST EFFECTIVENESS; *CONSTRUCTION COSTS; *EDUCATIONAL FACILITIES;
*FACILITY PLANNING; *FUEL CONSUMPTION; *SOLAR RADIATION; *SPACE UTILIZATION

ISSUE: CIJE1975

ABSTRACT: DESIGN IDEAS TO SAVE ENERGY, SPACE, AND MONEY-FROM PLAYFIELDS ON THE ROOF TO PEOPLE POCKETS IN A PATIO. (AUTHOR)

JOURNAL CITATION: NATION'S SCHOOLS AND COLLEGES: 21: 4: 1

21-28

ACCESSION NUMBER: EJ119841
CLEARINGHOUSE ACCESSION NUMBER: RC501837
PUBLICATION DATE: SPR 75
TITLE: RETURN TO RETURNABLES
PERSONAL AUTHOR: MAHEU, WICKEY

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *ENERGY CONSERVATION;
*LEGISLATION; *OUTDOOR EDUCATION; *CONSUMER ECONOMICS;
*EMPLOYMENT; *INDUSTRY; *NATURAL RESOURCES; *WASTE DISPOSAL;
*RETURNABLE BOTTLES

ISSUE: CIJE1975

ABSTRACT: VARIOUS VIEWPOINTS RELATIVE TO LEGISLATION ON RETURNABLE BOTTLES ARE PRESENTED. (JC)

JOURNAL CITATION: COMMUNICATOR: 6: 2: 39-42

ACCESSION NUMBER: EJ119862
CLEARINGHOUSE ACCESSION NUMBER: SE512906
PUBLICATION DATE: FEB 75
TITLE: WHERE CREDIT IS DUE - THE ENERGY CONSERVATION PRINCIPLE
PERSONAL AUTHOR: RAMAN, V. V.

DESCRIPTOR: *ENERGY; *PHYSICS; *SCIENCE HISTORY;
*SCIENTIFIC METHODOLOGY; *THERMODYNAMICS; *COLLEGE SCIENCE;
*SCIENCE MATERIALS

ISSUE: CIJE1975

ABSTRACT: BRIEFLY MENTIONS PRE-19TH CENTURY IDEAS AND DISCUSSES THE CONTRIBUTIONS OF MOHR, SEGUIN, MAYER, GROVE, COULOMB, JOULE AND HELMHOLTZ AND THE CONTROVERSIES REGARDING PRIORITY INCLUDING TYNDALL'S INVOLVEMENT IN ONE OF THEM. MENTIONS THE TENSION BETWEEN PHILOSOPHICAL AND PRACTICAL MODES OF THOUGHT IN 19TH CENTURY SCIENCE. INCLUDES PORTRAITS. (GM)

JOURNAL CITATION: PHYSICS TEACHER: 13: 2: 80-86

ACCESSION NUMBER: EJ119863
CLEARINGHOUSE ACCESSION NUMBER: SE512907
PUBLICATION DATE: FEB 75
TITLE: LASER FUSION - A NEW THERMONUCLEAR CONCEPT
PERSONAL AUTHOR: COOPER, RALPH S.

DESCRIPTOR: *ENERGY; *LASERS; *NUCLEAR PHYSICS; *SCIENCE MATERIALS; *TECHNOLOGY; *COLLEGE SCIENCE; *PHYSICS

ISSUE: CIJE1975

ABSTRACT: DESCRIBES THERMONUCLEAR PROCESSES INDUCED BY INTERACTION OF A LASER BEAM WITH THE SURFACE OF A FUEL PELLET. AN EXPANDING PLASMA IS FORMED WHICH RESULTS IN COMPRESSION OF THE ELEMENT. LASER AND REACTOR TECHNOLOGY ARE DISCUSSED. PICTURES AND DIAGRAMS ARE INCLUDED. (GM)

JOURNAL CITATION: PHYSICS TEACHER: 13: 2: 87-92

ACCESSION NUMBER: EJ119888
CLEARINGHOUSE ACCESSION NUMBER: SE513349
PUBLICATION DATE: MAR 75
TITLE: THE ROLE OF INDUSTRY IN INTERNATIONAL ENERGY PROGRAMS
PERSONAL AUTHOR: SCHMITT, ROLAND W.; STEWART, PETER J.

DESCRIPTOR: *DEVELOPED NATIONS; *ENERGY; *INDUSTRY;
*SCIENTIFIC RESEARCH; *GOVERNMENT ROLES; *RESEARCH UTILIZATION;
*TECHNOLOGY

ISSUE: CIJE1975

JOURNAL CITATION: PHYSICS TODAY: 28: 3: 40-44

ACCESSION NUMBER: EJ119891
CLEARINGHOUSE ACCESSION NUMBER: SE513352
PUBLICATION DATE: MAR 75
TITLE: CHEMICAL FIRMS EYE COAL TO REPLACE OIL
DESCRIPTOR: *CHEMICAL INDUSTRY; *ENERGY; *PETROLEUM INDUSTRY;
*TECHNOLOGICAL ADVANCEMENT; *CHEMISTRY;
*ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES

ISSUE: CIJE1975

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS: 53: 10: 5

ACCESSION NUMBER: EJ119939
CLEARINGHOUSE ACCESSION NUMBER: SE513843
PUBLICATION DATE: MAY 75
TITLE: THE IRON-TYDIONE PHOTO GALVANIC CELL

PERSONAL AUTHOR: CHAMBERS, KENNETH

DESCRIPTOR: *ELECTRICITY; *ENERGY; *PHOTOCHEMICAL REACTIONS; *SCIENCE EDUCATION; *STUDENT DEVELOPED MATERIALS; SECONDARY EDUCATION; SECONDARY SCHOOL SCIENCE; SCIENCE PROJECTS; PHOTOVOLTAIC CELL

ISSUE: CIJE1975

ABSTRACT: DESCRIBES AN IRON-THIOMINE PHOTOVOLTAIC CELL DESIGNED, CONSTRUCTED AND TESTED BY A SECONDARY SCHOOL STUDENT. (PB)

JOURNAL CITATION: SCIENCE TEACHER: 42: 5: 93-92

ACCESSION NUMBER: EJ119942

CLEARINGHOUSE ACCESSION NUMBER: SE513846

PUBLICATION DATE: MAY 75

TITLE: SHEDDING SOME LIGHT-- ON LIGHTNING

PERSONAL AUTHOR: SONNIER, ISAAC L.

DESCRIPTOR: *ELECTRICITY; *PHYSICAL SCIENCES; *SCIENTIFIC CONCEPTS; *ENERGY; *EARTH SCIENCES; *SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; *LIGHTNING

ISSUE: CIJE1975

ABSTRACT: PRESENTS A BRIEF DISCUSSION OF LIGHTNING AND ITS CAUSES. MAKES THE POINT THAT LIGHTNING KILLS MORE INDIVIDUALS THAN DO THE MORE-WIDELY PUBLICIZED TORNADES. (PB)

JOURNAL CITATION: SCIENCE TEACHER: 42: 5: 94-95

ACCESSION NUMBER: EJ119952

CLEARINGHOUSE ACCESSION NUMBER: SE513846

PUBLICATION DATE: MAY 75

TITLE: FUELS FROM RECYCLING SYSTEMS

PERSONAL AUTHOR: TILLMAN, DAVID A.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL RESEARCH; *FUELS; *RECYCLING; *WASTE DISPOSAL; INDUSTRIAL TECHNOLOGY; NATURAL RESOURCES; DEPLETED RESOURCES; WASTES; *SOLID WASTES

ISSUE: CIJE1975

ABSTRACT: THREE SYSTEMS, OPERATING AT SUFFICIENT SCALE, PRODUCE FUELS THAT MAY BE ALTERNATIVES TO OIL AND GAS. THESE THREE RECYCLING SYSTEMS ARE: BLACK CLAWSON FIBERCLAIN, FRANKLIN, OHIO; UNION CARBIDE, SOUTH CHARLESTON, WEST VIRGINIA; AND UNION ELECTRIC, ST. LOUIS, MISSOURI. THESE PRODUCE A WET FUEL, A PYROLYTIC GAS, AND A DRY FUEL, RESPECTIVELY. (BT)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY: 9: 5: 418-422

ACCESSION NUMBER: EJ119953

CLEARINGHOUSE ACCESSION NUMBER: SE513891

PUBLICATION DATE: MAY 75

TITLE: COST/BENEFITS OF SOLID WASTE REUSE

PERSONAL AUTHOR: SCHULZ, HELMUT W.

DESCRIPTOR: *ENERGY; *NATURAL RESOURCES; *RECYCLING; *TECHNOLOGY; *WASTES; COST EFFECTIVENESS; FUELS; DEPLETED RESOURCES; UTILITIES; WASTE DISPOSAL

ISSUE: CIJE1975

ABSTRACT: MUNICIPALITIES AND INDUSTRY ARE BEING FORCED TO SEEK ALTERNATIVES TO SANITARY LANDFILLS AND INCINERATION AS MEANS OF ELIMINATING SOLID WASTES. BASED ON THE COLUMBIA STUDY, THE TWO MOST COST-EFFECTIVE, ENVIRONMENTALLY ACCEPTABLE ALTERNATIVES ARE THE HIGH TEMPERATURE, OXYGEN-FED PYROLYSIS PROCESS AND THE CO-COMBUSTION OF REFUSE-DERIVED FUEL IN COAL-BURNING UTILITY BOILERS. (BT)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY: 9: 5: 423-427

ACCESSION NUMBER: EJ119954

CLEARINGHOUSE ACCESSION NUMBER: SE513892

PUBLICATION DATE: MAY 75

TITLE: CONTROLS FOR BURNING SOLID WASTES

PERSONAL AUTHOR: TORO, RICHARD F.; WEINSTEIN, NORMAN J.

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENT; *INSTRUMENTATION; *WASTE DISPOSAL; *WASTES; *ENERGY; POLLUTION; THERMAL ENVIRONMENT; UTILITIES; THERMISTORS

ISSUE: CIJE1975

ABSTRACT: MODERN THERMAL SOLID WASTE PROCESSING SYSTEMS ARE BECOMING MORE COMPLEX, INCORPORATING FEATURES THAT REQUIRE INSTRUMENTATION AND CONTROL SYSTEMS TO A DEGREE GREATER THAN THOSE PREVIOUSLY REQUIRED FOR PROPER COMBUSTION CONTROL. WITH THE ADVENT OF COMPLEX, SOPHISTICATED, THERMAL PROCESSING SYSTEMS, TV MONITORING AND COMPUTER CONTROL SHOULD BECOME USEFUL TOOLS. (BT)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY: 9: 5: 428-432

ACCESSION NUMBER: EJ119955

CLEARINGHOUSE ACCESSION NUMBER: SE513896

PUBLICATION DATE: MAY 75

TITLE: RAY: SHAPING SCIENCE AFFAIRS AT STATE

PERSONAL AUTHOR: ZERKEL, FRED H.

DESCRIPTOR: *ENERGY; *NATURAL RESOURCES; *RESEARCH UTILIZATION; *TECHNOLOGY; *ENERGY CONSERVATION; *NUCLEAR PHYSICS; SCIENCE EDUCATION; TECHNOLOGICAL ADVANCEMENT

ISSUE: CIJE1975

ABSTRACT: PARTICULAR CONCERN AT THE SLOW PACE WITH WHICH THE UNITED STATES IS MAKING USE OF DOMESTIC ENERGY TECHNOLOGY, SPECIFICALLY NUCLEAR POWER, IS DISCUSSED WITH SPECIFIC EMPHASIS ON A LIQUID METAL FAST BREEDER DEMONSTRATION PLANT UNDER CONSIDERATION. (EB)

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS: 53: 20: 20-22

ACCESSION NUMBER: EJ119959

CLEARINGHOUSE ACCESSION NUMBER: SE513962

PUBLICATION DATE: MAY 75

TITLE: ENERGY CONSERVATION: BETTER LIVING THROUGH THERMODYNAMICS

PERSONAL AUTHOR: METZ, WILLIAM D.

DESCRIPTOR: *ENERGY CONSERVATION; *ENVIRONMENT; *NATURAL RESOURCES; *STANDARDS; *THERMODYNAMICS; *CONSERVATION EDUCATION; *ENVIRONMENTAL EDUCATION; *PHYSICAL SCIENCES; *ENERGY EFFICIENCY

ISSUE: CIJE1975

ABSTRACT: SHORTCOMINGS OF THE USUAL DEFINITION OF ENERGY EFFICIENCY ARE IDENTIFIED. SUGGESTIONS ARE GENERAL FOR BETTER USE OF FOSSIL FUELS. STUDIES DONE BY THE AMERICAN PHYSICS SOCIETY (APS) ARE DISCUSSED AND RECOMMENDATIONS MADE FOR AN IMPROVED DEFINITION OF ENERGY EFFICIENCY ARE DESCRIBED. (AUTHOR/EB)

JOURNAL CITATION: SCIENCE: 188: 4190: 820-821

ACCESSION NUMBER: EJ120477

CLEARINGHOUSE ACCESSION NUMBER: AA521140

PUBLICATION DATE: JUN 75

TITLE: RESEARCH DEVELOPMENTS: TEACHING GUIDE ON ENERGY

PERSONAL AUTHOR: GLICKMAN, L. JANE

DESCRIPTOR: *EDUCATIONAL RESEARCH; *TEACHING GUIDES; *ENERGY; *EFFECTIVE TEACHING; *CONSERVATION (ENVIRONMENT)

ISSUE: CIJE1975

ABSTRACT: ARTICLE DESCRIBED A HANDBOOK DESIGNED NOT ONLY TO ACQUAINT TEACHERS WITH SIMPLE ENERGY-SAVING TASKS THAT STUDENTS CAN PERFORM BUT ALSO TO HELP THEM TO UNDERSTAND THE CONCEPTS DEALT WITH IN THE LESSON PLANS. (AUTHOR/RK)

JOURNAL CITATION: AMERICAN EDUCATION: 11: 5: 40

ACCESSION NUMBER: EJ121326

CLEARINGHOUSE ACCESSION NUMBER: SE513200

PUBLICATION DATE: FEB 75

TITLE: ELECTROCHEMISTRY IN ORGANISMS: ELECTRON FLOW AND POWER OUTPUT

PERSONAL AUTHOR: CHIRPICH, THOMAS P.

DESCRIPTOR: *BIOPHYSICS; *CALCULATIONS; *ENERGY; *METABOLISM; *SCIENCE MATERIALS; *BIOCHEMISTRY; COLLEGE SCIENCE; HIGHER EDUCATION; PHYSICS; SCIENCE EDUCATION

ISSUE: CIJE1975

ABSTRACT: PRESENTS A SERIES OF CALCULATIONS, APPROPRIATE FOR THE FRESHMAN LEVEL, TO DETERMINE THE FLOW OF ELECTRONS TO OXYGEN ALONG THE ELECTRON TRANSPORT CHAIN. STATES THAT LIVING ORGANISMS RESEMBLE FUEL CELLS AND DEVELOPS CALCULATIONS FOR DETERMINING POWER OUTPUT. (GS)

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION: 52: 2: 99-100

ACCESSION NUMBER: EJ121336

CLEARINGHOUSE ACCESSION NUMBER: SE513331

PUBLICATION DATE: MAR 75

TITLE: DOWN TO EARTH SOLAR ENERGY MEASUREMENT

PERSONAL AUTHOR: OPPEGARD, MILO

DESCRIPTOR: *ENERGY; *MEASUREMENT; *SCIENCE ACTIVITIES; *SOLAR RADIATION; LABORATORY EXPERIMENTS; PHYSICS; SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; SECONDARY EDUCATION

ISSUE: CIJE1975

ABSTRACT: DESCRIBES THE CONSTRUCTION OF A CALORIMETER TO BE USED IN AN EXPERIMENT WHICH CONSISTS OF MEASURING THE RATE AT WHICH GROUND LEVEL SOLAR RADIATION RAISES THE TEMPERATURE OF THE METAL IN THE CALORIMETER. (GS)

JOURNAL CITATION: PHYSICS TEACHER: 13: 3: 162-164

ACCESSION NUMBER: EJ121363

CLEARINGHOUSE ACCESSION NUMBER: SE513338

PUBLICATION DATE: MAR 75

TITLE: THE CAR, THE BEER CAN, AND THE BRICK WALL

PERSONAL AUTHOR: ZOLLMAN, DEAN

DESCRIPTOR: *ENERGY; *LABORATORY EXPERIMENTS; *MECHANICS (PHYSICS); *MOTION; *SCIENCE ACTIVITIES; *FORCES; *SAFETY; SECONDARY SCHOOL SCIENCE; SECONDARY EDUCATION

ISSUE: CIJE1975

ABSTRACT: EXPLAINS A METHOD OF EXPLOITING RECENT INTEREST IN AUTOMOBILE SAFETY TO DEMONSTRATE, QUALITATIVELY, CONCEPTS OF MOMENTUM AND ENERGY. (GS)

JOURNAL CITATION: PHYSICS TEACHER: 13: 3: 173-175

ACCESSION NUMBER: EJ121415

CLEARINGHOUSE ACCESSION NUMBER: SE513743

PUBLICATION DATE: APR 75

TITLE: RESOURCES AND THE QUALITY OF LIFE

PERSONAL AUTHOR: JERIAN, WARTAN A.

DESCRIPTOR: *CONFERENCE REPORTS; *ENGINEERING EDUCATION; *LIVING STANDARDS; *NATURAL RESOURCES; *ECOLOGICAL ENVIRONMENTAL EDUCATION; ENERGY; *SOCIETAL NEEDS

ISSUE: CIJE1975

ABSTRACT: DESCRIBES THE SPEAKERS INVOLVED AND PRESENTS THE ISSUES ADDRESSED AT THE PLENARY SESSION OF THE AMERICAN SOCIETY OF ENGINEERING EDUCATION IN 1974. SPEAKERS INCLUDED A HISTORIAN, A REPRESENTATIVE OF THE ARMY CORPS OF ENGINEERS, A PRACTICING ENGINEER, AND A CONSULTANT ON NATIONAL MATERIALS POLICY. (GS)

JOURNAL CITATION: ENGINEERING EDUCATION: 69: 7: 714-715

ACCESSION NUMBER: EJ121417

CLEARINGHOUSE ACCESSION NUMBER: SE513745

PUBLICATION DATE: APR 75

TITLE: RESPONDING TO PAST AND PRESENT NEEDS

PERSONAL AUTHOR: MORRIS, J. W.

DESCRIPTOR: *CAREERS; *ENGINEERING EDUCATION; *SCIENCE HISTORY; ENERGY; GOVERNMENT ROLE; NATURAL RESOURCES; TECHNOLOGY; *SOCIETAL NEEDS

ISSUE: CIJE1975

ABSTRACT: THE DIRECTOR OF CIVIL WORKS, U. S. CORPS OF ENGINEERS, PRESENTS THOUGHTS AID IN ANSWERING QUESTIONS RELATED TO THE RELATIONSHIP BETWEEN COMMUNITY ACTION AND GREAT WORKS, BETWEEN COMMUNITY ACTION AND CIVILIZATION, AND THE IMPLICATIONS OF THESE RELATIONSHIPS FOR THOSE WE TRAIN. (GS)

JOURNAL CITATION: ENGINEERING EDUCATION: 69: 7: 718-719,750

ACCESSION NUMBER: EJ121423

CLEARINGHOUSE ACCESSION NUMBER: SE513751

PUBLICATION DATE: APR 75

TITLE: A NUCLEAR ENERGY ELECTIVE FOR "ENGINEERS"

PERSONAL AUTHOR: LONG, R. L. AND OTHERS

DESCRIPTOR: *COLLEGE SCIENCE; *COURSE DESCRIPTIONS; *COURSE CONTENT; *ENERGY; *NUCLEAR PHYSICS; HIGHER EDUCATION; SCIENCE EDUCATION; TECHNOLOGY; TEXTBOOKS

ISSUE: CIJE1975

ABSTRACT: DESCRIBES A COURSE IN THE TECHNOLOGY OF NUCLEAR ENERGY WHICH RESPONDS TO THE IMMEDIATE CONCERNS OF STUDENTS IN AREAS SUCH AS ENVIRONMENTAL EFFECTS, WEAPONS EFFECTS, NATIONAL ENERGY NEEDS, AND MEDICAL AND FORENSIC APPLICATIONS. INCLUDES A COURSE OUTLINE AND DESCRIPTION OF APPROPRIATE TEXTBOOKS. (GS)

JOURNAL CITATION: ENGINEERING EDUCATION: 69: 7: 752-754

ACCESSION NUMBER: EJ121426

CLEARINGHOUSE ACCESSION NUMBER: SE513754

PUBLICATION DATE: APR 75

TITLE: AIDS FOR EDUCATORS

DESCRIPTOR: *ENGINEERING EDUCATION; *INSTRUCTIONAL AIDS; *LABORATORY EQUIPMENT; *SCIENCE EQUIPMENT; EQUIPMENT EVALUATION; ENERGY; HYDRAULICS; RADIATION; SCIENCE EDUCATION

ISSUE: CIJE1975

JOURNAL CITATION: ENGINEERING EDUCATION: 69: 7: 774

ACCESSION NUMBER: EJ121429

CLEARINGHOUSE ACCESSION NUMBER: SE513757

PUBLICATION DATE: MAR/APR 75

TITLE: LIGHTING CONSERVATION

PERSONAL AUTHOR: ARNOLD, FRANK D.

DESCRIPTOR: *ENERGY; *EFFICIENCY; *LIGHTING; CONSERVATION EDUCATION; CONTROLLED ENVIRONMENT; LIGHTING DESIGN

ISSUE: CIJE1975

ABSTRACT: WITH THE ENERGY CRISIS HAS COME AN AWARENESS OF WASTEFUL CONSUMPTION PRACTICES. ONE AREA WHERE RESEARCH IS BEING DONE IS IN LIGHTING CONSERVATION. INFORMATION IN THIS ARTICLE IS CONCERNED WITH FINDING MORE EFFECTIVE AND EFFICIENT LIGHTING DESIGNS WHICH INCLUDE DAYLIGHT UTILIZATION, TASK-ORIENTED LIGHTING, AND LIGHTING CONTROLS. (MA)

JOURNAL CITATION: JOURNAL OF ENVIRONMENTAL HEALTH: 37: 5: 438-441

ACCESSION NUMBER: EJ121467

CLEARINGHOUSE ACCESSION NUMBER: SE513801

PUBLICATION DATE: MAY 75

TITLE: NATIONAL & LEGISLATIVE NEWS: OUR NEW FEDERAL ENERGY CONTROL MACHINERY

PERSONAL AUTHOR: STRASSENBURG, ARNOLD A.

DESCRIPTOR: *ENERGY; *FEDERAL LEGISLATION; *FEDERAL PROGRAMS; NATIONAL PROGRAMS; CONSERVATION EDUCATION; ENERGY CONSERVATION

ISSUE: CIJE1975

ABSTRACT: DESCRIBES THE DUTIES ASSIGNED TO THE ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION (ERDA) BY THE ENERGY REORGANIZATION ACT OF 1974; ALSO OUTLINES THE ROLES TO BE PLAYED BY THE NUCLEAR REGULATORY COMMISSION (NRC) AND THE FEDERAL ENERGY ADMINISTRATION (FEA). (AUTHOR/ED)

JOURNAL CITATION: JOURNAL OF COLLEGE SCIENCE TEACHING: 4: 5: 325-327

ACCESSION NUMBER: EJ121506

CLEARINGHOUSE ACCESSION NUMBER: SE513858

PUBLICATION DATE: MAY 75

TITLE: ENERGY ALTERNATIVES

DESCRIPTOR: *ENERGY; *ECONOMICS; *PHYSICS; *TECHNOLOGY; NATURAL RESOURCES; SOLAR RADIATION

ISSUE: CIJE1975

ABSTRACT: PRESENTS IN TABULAR FORM OUR ENERGY CHOICES INCLUDING METHOD, DESCRIPTION, STATE OF TECHNOLOGY, DIFFICULTIES, CURRENT CAPABILITIES, PROBABLE POTENTIAL, RELATIVE COST, AND AVAILABILITY. (GS)

JOURNAL CITATION: PHYSICS TEACHER: 13: 5: 292-293

ACCESSION NUMBER: EJ121567

CLEARINGHOUSE ACCESSION NUMBER: SE514037

PUBLICATION DATE: MAY 75

TITLE: ENERGY AND THE SHAPE OF SOCIETY

PERSONAL AUTHOR: ABELSON, PHILIP H.

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *ENVIRONMENTAL INFLUENCES; CONSERVATION (ENVIRONMENT); HUMANITIES; SCIENCES; SOCIAL STATUS

ISSUE: CIJE1975

ABSTRACT: PRESENTS IDEAS RELATED TO COMING SHIFTS IN ENERGY SOURCES AND THE EFFECTS TO BE FELT ON THE ECONOMY AND THE WAY PEOPLE LIVE. (EB)

JOURNAL CITATION: SCIENCE: 188: 4191: 889

ACCESSION NUMBER: EJ121574

CLEARINGHOUSE ACCESSION NUMBER: SE514073

PUBLICATION DATE: MAY/JUN 75

TITLE: ENERGY VS. PRODUCTIVITY: DIMINISHING RETURNS

DESCRIPTOR: *CORN (FIELD CROP); *COST EFFECTIVENESS; *ENERGY; *PRODUCTIVITY; AGRICULTURAL PRODUCTION; AGRICULTURE; ECONOMICS; FERTILIZERS

ISSUE: CIJE1975

ABSTRACT: ENERGY INVESTED IN CORN PRODUCTION IS COMPARED WITH FOOD ENERGY RETURNED IN CALCULATIONS BY DAVID PINNETT AT CORNELL UNIVERSITY. THE RATE OF RETURN IS FALLING OFF SHARPLY IN THIS ALREADY ENERGY-INTENSIVE AGRICULTURE. INCREASED ENERGY INPUT, IN THE FORM OF FERTILIZER, WOULD YIELD FAR GREATER RETURNS WHERE AGRICULTURE IS LESS SOPHISTICATED. (AUTHOR/ED)

JOURNAL CITATION: MOSAIC: 6: 3: 9-12

ACCESSION NUMBER: EJ121600

CLEARINGHOUSE ACCESSION NUMBER: SE514126

PUBLICATION DATE: MAY 75

TITLE: SOLAR HEATED HOMES: THEY'RE HERE

PERSONAL AUTHOR: KNIGHT, CARLTON W.; WOHLHAGEN, LINDA

DESCRIPTOR: *ENERGY CONSERVATION; *ENVIRONMENTAL
INFLUENCE; *SOLAR RADIATION; ENERGY; ENVIRONMENTAL
EDUCATION; HEAT; THERMAL ENVIRONMENT

ISSUE: CIJE1975

ABSTRACT: PRESENTS A DISCUSSION AND EXAMPLES OF THE TWO CATEGORIES INTO WHICH SOLAR HOMES HAVE BEEN CLASSIFIED. CLASSIFICATIONS ARE BASED UPON THE METHOD BY WHICH THE SUNLIGHT IS PUT TO USE: ENERGY CONVERSION, UTILIZING PHOTOELECTRIC CELLS; AND DIRECT HEATING, WHERE SUNLIGHT HEATS WATER WHICH THEN HEATS THE HOME. DIAGRAMS ARE PRESENTED. (AUTHOR/EB)

JOURNAL CITATION: SCIENCE AND CHILDREN; 12; 8; 13-14

ACCESSION NUMBER: EJ121613

CLEARINGHOUSE ACCESSION NUMBER: SE514161

PUBLICATION DATE: JUN 75

TITLE: VARIANCE DESIGN AND AIR POLLUTION CONTROL

PERSONAL AUTHOR: FERRAR, TERRY A.; BROWNSTEIN, ALAN B.

DESCRIPTOR: *AIR POLLUTION CONTROL; *ECONOMICS; *FUELS;
POLICY; FORMATION; *STANDARDS; ENERGY; ENVIRONMENT; FUEL
CONSUMPTION; INCENTIVE SYSTEMS; POLLUTION

ISSUE: CIJE1975

ABSTRACT: AIR POLLUTION CONTROL AUTHORITIES WERE FORCED TO RELAX AIR QUALITY STANDARDS DURING THE WINTER OF 1972 BY GRANTING VARIANCES. THIS PAPER EXAMINES THE INSTITUTIONAL CHARACTERISTICS OF THESE VARIANCE POLICIES FROM AN ECONOMIC INCENTIVE STANDPOINT, SETS UP DESIRABLE STRUCTURAL CRITERIA FOR INSTITUTIONAL DESIGN AND ARRIVES AT POLICY GUIDELINES FOR FUTURE USE. (BT)

JOURNAL CITATION: JOURNAL OF THE AIR POLLUTION CONTROL
ASSOCIATION; 25; 6; 602-604

ACCESSION NUMBER: EJ121645

CLEARINGHOUSE ACCESSION NUMBER: SE514311

PUBLICATION DATE: JUL 75

TITLE: ENERGY CONSERVATION AND THE CONSUMER

PERSONAL AUTHOR: HANNON, BRUCE

DESCRIPTOR: *CONSERVATION EDUCATION; *CONSUMER ECONOMICS;
*CONSUMER EDUCATION; *ENERGY; *ENERGY CONSERVATION;
ENVIRONMENTAL EDUCATION; TECHNOLOGICAL ADVANCEMENT

ISSUE: CIJE1975

ABSTRACT: PRESENTS AN EXPLANATION OF WHAT IS KNOWN ABOUT THE CONNECTIONS AMONG CONSUMER ACTIVITIES, THE DIRECT AND INDIRECT DEMANDS OF THESE ACTIVITIES FOR ENERGY AND EMPLOYMENT, AND THE CONSUMER'S OPTIONS FOR ENERGY CONSERVATION. A TAX TO BE PLACED ON ENERGY AND ADJUSTED TO WAGE LEVELS IS SUGGESTED. (AUTHOR/EB)

JOURNAL CITATION: SCIENCE; 189; 4197; 95-102

ACCESSION NUMBER: EJ123177

CLEARINGHOUSE ACCESSION NUMBER: SE512699

PUBLICATION DATE: JAN 75

TITLE: ENERGY AND PROSPERITY: SOME ELEMENTS OF A GLOBAL PERSPECTIVE

PERSONAL AUTHOR: HOLDREN, JOHN P.

DESCRIPTOR: *ENERGY; *ECONOMIC FACTORS; *NATURAL RESOURCES;
*POPULATION GROWTH; ENVIRONMENTAL EDUCATION; SCIENCE
EDUCATION; TECHNOLOGY

ISSUE: CIJE1976

ABSTRACT: IDENTIFIES THREE COMPONENTS OF THE GLOBAL ENERGY DILEMMA AND ADVOCATES A REDISTRIBUTION OF GROWTH IN ENERGY USE FROM RICH TO POOR COUNTRIES. OUTLINES STEPS THAT MUST BE TAKEN TO ACCOMPLISH THIS REDISTRIBUTION INCLUDING POPULATION CONTROL AND IMPROVEMENT OF ENERGY TECHNOLOGIES. (GS)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 31; 1;
26-28

ACCESSION NUMBER: EJ123178

CLEARINGHOUSE ACCESSION NUMBER: SE512700

PUBLICATION DATE: JAN 75

TITLE: CRISIS OF RESOURCE SCARCITY: THE TRANSITION TO AN ENERGY-LIMITED ECONOMY

PERSONAL AUTHOR: BERRY, R. STEPHEN

DESCRIPTOR: *ENERGY; *ECONOMIC FACTORS; *NATURAL RESOURCES;
*POLLUTION; ENVIRONMENTAL EDUCATION; PETROLEUM INDUSTRY;
SCIENCE EDUCATION

ISSUE: CIJE1976

ABSTRACT: CASTS THE ENERGY CRISIS IN THE LARGER CONTEXT OF CONSTRAINTS ON THE USE OF ALL PHYSICAL RESOURCES AND VIEWS ENERGY USE AND PROTECTION OF ENVIRONMENTAL RESOURCES AS TWO PARTS OF A COMMON ISSUE. (GS)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 31; 1;
31-36

ACCESSION NUMBER: EJ123179

CLEARINGHOUSE ACCESSION NUMBER: SE512701

PUBLICATION DATE: JAN 75

TITLE: THE LAST CIVILIZATION

PERSONAL AUTHOR: CHASE, STUART

DESCRIPTOR: *LEGAL PROBLEMS; *NATURAL RESOURCES; *WORLD
AFFAIRS; *WORLD PROBLEMS; AGENCY ROLE; ENERGY; POPULATION
GROWTH; SCIENCE EDUCATION

ISSUE: CIJE1976

ABSTRACT: DISCUSSES THE RAPID SHIFT IN RELATIONSHIPS BETWEEN SUPPLIERS OF RAW MATERIALS AND THE CONSUMERS. INDICATES THAT THE SOLUTION TO THE MAJOR WORLD PROBLEMS INVOLVES CHANGING HUMAN BEHAVIOR, NOT TECHNOLOGY. (GS)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 31; 1;
37-40

ACCESSION NUMBER: EJ123186

CLEARINGHOUSE ACCESSION NUMBER: SE512867

PUBLICATION DATE: JAN 75

TITLE: EARTHLY MECHANICS: TWO MISAPPREHENSIONS AND A HERESY

PERSONAL AUTHOR: MCCLELLAND, G.

DESCRIPTOR: *COLLEGE SCIENCE; *MECHANICS (PHYSICS);
*PHYSICS; *SCIENTIFIC CONCEPTS; ENERGY CONSERVATION; HIGHER
EDUCATION; INSTRUCTION; SCIENCE EDUCATION

ISSUE: CIJE1976

ABSTRACT: IN ADDITION TO TWO MISAPPREHENSIONS, THAT THE EARTH IS INVOLVED IN MANY PHYSICAL PHENOMENA AND THAT IT IS INFINITE AND UNMOVING, PHYSICS STUDENTS OFTEN BELIEVE THAT THE EARTH, WITHOUT EXPENDING ENERGY, CAN PUSH THINGS ALONG ITS SURFACE, GIVING RISE TO ACCELERATIONS. (MLM)

JOURNAL CITATION: PHYSICS EDUCATION; 10; 1; 28-29

ACCESSION NUMBER: EJ123194

CLEARINGHOUSE ACCESSION NUMBER: SE512875

PUBLICATION DATE: JAN 75

TITLE: INERTIA OF POTENTIAL ENERGY

PERSONAL AUTHOR: HIGBIE, J.

DESCRIPTOR: *COLLEGE SCIENCE; *ENERGY; *INSTRUCTION;
*PHYSICS; *RELATIVITY; HIGHER EDUCATION; MECHANICS
(PHYSICS); SCIENCE EDUCATION

ISSUE: CIJE1976

ABSTRACT: DEMONSTRATES THAT WHEN A SYSTEM OF ATTRACTING OR REPELLING BODIES IS BOUND, ITS REST MASS WILL GENERALLY BE DIFFERENT THAN THE SUM OF THE REST MASSES OF THE INDIVIDUAL BODIES. THE MASS EXCESS OR DEFECT IS SIMPLY RELATED TO THE STORED POTENTIAL ENERGY OF THE SYSTEM. (AUTHOR/MLM)

JOURNAL CITATION: PHYSICS EDUCATION; 10; 1; 55-57

ACCESSION NUMBER: EJ123203

CLEARINGHOUSE ACCESSION NUMBER: SE513736

PUBLICATION DATE: DEC 74

TITLE: THE ENERGY CRISIS AND SOLAR ENERGY

PERSONAL AUTHOR: BOCKRIS, J. D'N.

DESCRIPTOR: *ENERGY; *ENVIRONMENT; *SOLAR RADIATION;
ECONOMIC FACTORS; NATURAL RESOURCES; PETROLEUM INDUSTRY;
*AUSTRALIA

ISSUE: CIJE1976

ABSTRACT: EXAMINES THE STATUS OF THE ENERGY CRISIS IN AUSTRALIA. OUTLINES ENERGY ALTERNATIVES FOR THE 1990'S AND DESCRIBES THE PRESENT STATUS OF SOLAR ENERGY RESEARCH AND THE ECONOMICS OF SOLAR ENERGY SYSTEMS. (GS)

JOURNAL CITATION: SOUTH AUSTRALIAN SCIENCE TEACHERS
JOURNAL; 24; 28-31

ACCESSION NUMBER: EJ123212

CLEARINGHOUSE ACCESSION NUMBER: SE513931

PUBLICATION DATE: MAY 75

TITLE: AN OVERVIEW OF THE ENERGY CRISIS

PERSONAL AUTHOR: WALTERS, EDWARD A.; WEWERKA, EUGENE M.

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *FUEL
CONSUMPTION; *FUELS; *NATURAL RESOURCES; SCIENTIFIC
RESEARCH; TECHNOLOGY

ISSUE: CIJE1976

ABSTRACT: CONCLUDES THAT COAL WILL BE THE MAJOR U.S. ENERGY SOURCE IN THE NEAR FUTURE DESPITE THE SIGNIFICANT PROBLEMS ASSOCIATED WITH AN INCREASE IN COAL CONSUMPTION. PROVIDES ADVANTAGES AND DISADVANTAGES FOR THE FOUR MAJOR LONG-TERM ENERGY SOURCES: NUCLEAR FISSION, NUCLEAR FUSION, GEOTHERMAL SOURCES, AND SOLAR ENERGY. (MLH)

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 52; 5: 282-288

ACCESSION NUMBER: EJ123213

CLEARINGHOUSE ACCESSION NUMBER: SE513932

PUBLICATION DATE: MAY 75

TITLE: RESOURCES IN ENVIRONMENTAL CHEMISTRY: AN ANNOTATED BIBLIOGRAPHY OF ENERGY AND ENERGY-RELATED TOPICS

PERSONAL AUTHOR: MOORE, JOHN W.; MOORE, ELIZABETH A.

DESCRIPTOR: *BIBLIOGRAPHIES; *CHEMISTRY; *ENERGY; *ENVIRONMENT; *INFORMATION SOURCES; ENERGY CONSERVATION; ENVIRONMENTAL RESEARCH; LITERATURE

ISSUE: CIJE1976

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 52; 5: 288-295

ACCESSION NUMBER: EJ123225

CLEARINGHOUSE ACCESSION NUMBER: SE514058

PUBLICATION DATE: JUN 75

TITLE: STATEMENT OF THE EXECUTIVE COMMITTEE OF THE SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION--COMMENTS ON THE BREEDER REACTOR

DESCRIPTOR: *ECONOMICS; *ENERGY; *ECOLOGICAL FACTORS; *FEDERAL GOVERNMENT; *POLICY; AGENCIES; NUCLEAR PHYSICS

ISSUE: CIJE1976

ABSTRACT: INHERITANCE OF THE ATOMIC ENERGY COMMISSION'S DRAFT ENVIRONMENTAL IMPACT STATEMENT FOR THE LIQUID METAL FAST BREEDER REACTOR PROGRAM BY THE ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION HAS CAUSED MUCH CONCERN AMONG MEMBERS OF THE SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION (SIPI). SIPI MEMBERS ARE CONCERNED ABOUT THE INADEQUACY AND ECONOMIC FEASIBILITY OF THE PROGRAM. (MA)

JOURNAL CITATION: ENVIRONMENT; 17; 4: 6-7

ACCESSION NUMBER: EJ123226

CLEARINGHOUSE ACCESSION NUMBER: SE514059

PUBLICATION DATE: JUN 75

TITLE: A TROUBLESOME BREW

PERSONAL AUTHOR: NOVICK, SHELDON

DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; *SAFETY; ECOLOGICAL FACTORS; FEDERAL PROGRAMS; SCIENCE EDUCATION; *NUCLEAR REACTORS

ISSUE: CIJE1976

ABSTRACT: DISCUSSED IS THE ENVIRONMENTAL IMPACT OF THE LIQUID METAL FAST BREEDER REACTOR (LMFR). POSSIBLE PROBLEMS ASSOCIATED WITH THE LMFR ARE DEFINED AND THE METHOD OF RESEARCH BEING FOLLOWING IS DEPICTED. (MA)

JOURNAL CITATION: ENVIRONMENT; 17; 4: 8-11

ACCESSION NUMBER: EJ123227

CLEARINGHOUSE ACCESSION NUMBER: SE514060

PUBLICATION DATE: JUN 75

TITLE: A POOR BUY

PERSONAL AUTHOR: COCHRAN, THOMAS B.; AND OTHERS

DESCRIPTOR: *ENERGY; *ECONOMICS; *ELECTRICITY; *SAFETY; FEDERAL PROGRAMS; NUCLEAR PHYSICS; *NUCLEAR REACTORS

ISSUE: CIJE1976

ABSTRACT: BOTH ECONOMIC AND ENVIRONMENTAL FACTORS ARE AFFECTING THE FURTHER DEVELOPMENT OF LIQUID METAL FAST BREEDER REACTORS. RISING COSTS OF PLANT PRODUCTION AND THE POSSIBLE ENVIRONMENTAL EFFECTS OF THE BREEDER SYSTEM HAVE CAUSED THE U.S. TO CONSIDER CAREFULLY THIS METHOD OF ENERGY PRODUCTION. ALTERNATIVE ENERGY SOURCES ARE BEING STUDIED ALSO. (MA)

JOURNAL CITATION: ENVIRONMENT; 17; 4: 12-20

ACCESSION NUMBER: EJ123229

CLEARINGHOUSE ACCESSION NUMBER: SE514062

PUBLICATION DATE: JUN 75

TITLE: THE STRUGGLE FOR PUERTO RICO

PERSONAL AUTHOR: SANCHEZ-CARDONA, VICTOR; AND OTHERS

DESCRIPTOR: *DEVELOPMENT; *ENERGY; *ECONOMICS; *NATURAL RESOURCES; *POLLUTION; ECONOMIC DEVELOPMENT; ENERGY CONSERVATION; ECOLOGICAL FACTORS; TECHNOLOGICAL ADVANCEMENT

ISSUE: CIJE1976

ABSTRACT: SINCE THE 1940'S, OPERATION BOOTSTRAP, AN ECONOMIC DEVELOPMENT PROGRAM, HAS CHANGED PUERTO RICO FROM AN UNDEVELOPED COUNTRY TO ONE WITH INCREASING ENERGY DEMANDS, DECREASING NATURAL RESOURCES, AND ALARMING ENVIRONMENTAL DEGRADATION. THE PUERTO RICAN GOVERNMENT IS PRESENTLY SUPPORTING HIGH-ENERGY INDUSTRIAL FACILITIES WITHOUT REGARD TO ENVIRONMENTAL DISRUPTION OR ENERGY YIELDS. (MA)

JOURNAL CITATION: ENVIRONMENT; 17; 4: 34-40

ACCESSION NUMBER: EJ123230

CLEARINGHOUSE ACCESSION NUMBER: SE514088

PUBLICATION DATE: 75

TITLE: THE NEW URBAN CAR

PERSONAL AUTHOR: FERREE, ANN

DESCRIPTOR: *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *MOTOR VEHICLES; *TRANSPORTATION; *URBAN ENVIRONMENT; BUS TRANSPORTATION; FUEL CONSUMPTION; NATURAL RESOURCES

ISSUE: CIJE1976

JOURNAL CITATION: DESIGN AND ENVIRONMENT; 6; 1: 17-23

ACCESSION NUMBER: EJ123231

CLEARINGHOUSE ACCESSION NUMBER: SE514089

PUBLICATION DATE: 75

TITLE: GET A BIKE

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *TRAFFIC PATTERNS; *TRANSPORTATION; *URBAN ENVIRONMENT; *VEHICULAR TRAFFIC; ENERGY CONSERVATION

ISSUE: CIJE1976

JOURNAL CITATION: DESIGN AND ENVIRONMENT; 6; 1: 24-29

ACCESSION NUMBER: EJ123232

CLEARINGHOUSE ACCESSION NUMBER: SE514090

PUBLICATION DATE: 75

TITLE: CYCLISTS. . .CHIN UP

PERSONAL AUTHOR: DE GRAAF, PETER

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *TRAFFIC PATTERNS; *TRANSPORTATION; *URBAN ENVIRONMENT; *VEHICULAR TRAFFIC; CITIZEN PARTICIPATION; ENERGY CONSERVATION

ISSUE: CIJE1976

JOURNAL CITATION: DESIGN AND ENVIRONMENT; 6; 1: 30-37

ACCESSION NUMBER: EJ123238

CLEARINGHOUSE ACCESSION NUMBER: SE514102

PUBLICATION DATE: MAY/JUN 75

TITLE: ENERGY FROM WASTE IS FEASIBLE

PERSONAL AUTHOR: CULHAM, WILLIAM B.

DESCRIPTOR: *CONSERVATION EDUCATION; *ENERGY CONSERVATION; *NATURAL RESOURCES; *WASTE DISPOSAL; ENERGY; ECOLOGICAL FACTORS; ELECTRICITY; PLANT SCIENCE; SOLID WASTES; SOLID WASTE CONTROL

ISSUE: CIJE1976

ABSTRACT: A POSSIBLE ENERGY SOURCE IS THE UTILIZATION OF SOLID WASTE AS FUEL FOR POWER PRODUCTION. ALTHOUGH THIS IS ONLY A PARTIAL SOLUTION TO THE PROBLEM, IT WILL PROVIDE SOME ENERGY WHILE RESEARCH CONTINUES. THE ECONOMIC FEASIBILITY OF USING WASTES DEPENDS UPON A GREATER AMOUNT OF ENERGY BEING PRODUCED THAN EXPENDED. (MA)

JOURNAL CITATION: JOURNAL OF ENVIRONMENTAL HEALTH; 37; 6: 574-575

ACCESSION NUMBER: EJ123337

CLEARINGHOUSE ACCESSION NUMBER: SE514358

PUBLICATION DATE: JUL 75

TITLE: ERDA RECASTS NATION'S ENERGY GOALS

DESCRIPTOR: *DEPLETED RESOURCES; *ENERGY CONSERVATION; *OBJECTIVES; ENERGY; SOLAR RADIATION; SCIENCE MATERIALS; ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION; ERDA

ISSUE: CIJE1976

ABSTRACT: DESCRIBES FIVE MAJOR POLICY CHANGES OF THE ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION (ERDA), ONE OF WHICH SHARPLY DECREASED ITS EMPHASIS ON BREEDER REACTORS AND ANOTHER WHICH ELEVATED SOLAR-GENERATED ELECTRICITY TO A NEW HIGH PRIORITY AS A LONG-RANGE ENERGY SOURCE. (BR)

JOURNAL CITATION: SCIENCE NEWS; 108; 1: 4

ACCESSION NUMBER: EJ123410
CLEARINGHOUSE ACCESSION NUMBER: SE514539
PUBLICATION DATE: AUG 75
TITLE: EFFICIENT USE OF ENERGY
DESCRIPTOR: *EFFICIENCY; *ENERGY; *ENERGY CONSERVATION;
*PHYSICS; *FUEL CONSUMPTION; *HEAT; *HOUSING; *INDUSTRIAL
TECHNOLOGY; *SCIENCE EDUCATION; *THERMODYNAMICS
ISSUE: CIJE1976

ABSTRACT: EXPLAINS EFFICIENCY IN TERMS OF THERMODYNAMICS,
AND STATES SPECIFIC WAYS IN WHICH ENERGY EFFICIENCY CAN BE
INCREASED IN THE FOLLOWING AREAS: AUTOMOBILES, INDUSTRIAL
PROCESSES, AND INDOOR USE IN THE HOME. (MLH)
JOURNAL CITATION: PHYSICS TODAY; 28; 8; 23-33

ACCESSION NUMBER: EJ123411
CLEARINGHOUSE ACCESSION NUMBER: SE514540
PUBLICATION DATE: AUG 75
TITLE: U.S.G.S. RE-ESTIMATES RESERVES
DESCRIPTOR: *ENERGY; *FUELS; *NATIONAL SURVEYS; *NATURAL
RESOURCES; *GEOLOGY; *REPORTS; *STATISTICAL SURVEYS; *UNITED
STATES; *FEDERAL ENERGY ADMINISTRATION
ISSUE: CIJE1976
ABSTRACT: DESCRIBES A REPORT PREPARED FOR THE FEDERAL
ENERGY ADMINISTRATION BY A GROUP OF PETROLEUM GEOLOGISTS.
THE STUDY REPORTS MEAN ESTIMATES OF 82 BILLION BARRELS OF
CRUDE OIL AND 484 TRILLION CUBIC FEET OF NATURAL GAS IN THE
UNITED STATES, INCLUDING BOTH ONSHORE AND OFFSHORE
RESOURCES. (MLH)
JOURNAL CITATION: GEOTIMES; 20; 8; 20-21

ACCESSION NUMBER: EJ123412
CLEARINGHOUSE ACCESSION NUMBER: SE514541
PUBLICATION DATE: AUG 75
TITLE: FEA REPORTS ON PROVED RESERVES
DESCRIPTOR: *ENERGY; *FUELS; *NATIONAL SURVEYS; *NATURAL
RESOURCES; *GEOLOGY; *REPORTS; *STATISTICAL SURVEYS; *FEDERAL
ENERGY ADMINISTRATION
ISSUE: CIJE1976
ABSTRACT: EXPLAINS THE WAY IN WHICH OIL AND GAS RESERVES
ARE ESTIMATED, AND THE VARIATION IN THESE ESTIMATES
ACCORDING TO THE YEAR OF THE RESOURCES' ESTIMATION AND THE
GROUP UNDERTAKING THE SURVEY. A RECENT FEDERAL ENERGY
ADMINISTRATION STUDY SUGGESTS THAT RECOVERABLE OIL AND GAS
RESERVES HAVE LIMITS THAT MAY BE APPROACHED IN THE NEXT 50
YEARS. (MLH)
JOURNAL CITATION: GEOTIMES; 20; 8; 22-23

ACCESSION NUMBER: EJ123416
CLEARINGHOUSE ACCESSION NUMBER: SE514564
PUBLICATION DATE: AUG 75
TITLE: METHOD FORECASTS GLOBAL ENERGY SUBSTITUTION
DESCRIPTOR: *ENERGY; *FUEL CONSUMPTION; *MODELS; *NATURAL
RESOURCES; *PREDICTION; *ENERGY CONSERVATION; *MATHEMATICAL
MODELS
ISSUE: CIJE1976
ABSTRACT: DESCRIBES A MODEL DEVELOPED TO FORECAST ENERGY
DEMANDS AND DETERMINE TRENDS IN DEMAND FOR PRIMARY FUELS.
THE ENERGY MODEL ESSENTIALLY CONSIDERS PRIMARY ENERGY
SOURCES AS COMPETING COMMODITIES IN A MARKET. (MLH)
JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53; 32;
21-22

ACCESSION NUMBER: EJ124116
CLEARINGHOUSE ACCESSION NUMBER: EA506296
PUBLICATION DATE: SEP 75
TITLE: CALIFORNIA SCHOOLS FEATURE ENERGY EFFICIENT DESIGNS
DESCRIPTOR: *SCHOOL DESIGN; *ENERGY CONSERVATION;
*PERFORMANCE SPECIFICATIONS; *TRAINABLE MENTALLY HANDICAPPED;
*ILLUMINATION LEVELS; *AIR CONDITIONING EQUIPMENT; *ELEMENTARY
SECONDARY EDUCATION; *CALIFORNIA
ISSUE: CIJE1976
ABSTRACT: TWO NEW HIGH SCHOOLS AND AN ADDITION TO A SCHOOL
FOR THE TRAINABLE MENTALLY RETARDED ARE DESIGNED TO MEET OR
EXCEED FEDERAL ENERGY CONSERVATION GUIDELINES. (MLF)
JOURNAL CITATION: MODERN SCHOOLS; 12-13

ACCESSION NUMBER: EJ124120
CLEARINGHOUSE ACCESSION NUMBER: EA506305
PUBLICATION DATE: SEP 75
TITLE: ENERGY: WHAT'S AHEAD?

DESCRIPTOR: *ENERGY CONSERVATION; *BUILDING IMPROVEMENT;
*FACILITY GUIDELINES; *FEDERAL AID; *HIGHER EDUCATION
ISSUE: CIJE1976
ABSTRACT: A TASK FORCE IS CURRENTLY IMPLEMENTING A PLAN TO
OBTAIN FEDERAL ASSISTANCE TO REDUCE ENERGY COSTS FOR
NONPROFIT EDUCATIONAL INSTITUTIONS. (AUTHOR/MLF)
JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 48; 1;
31-32,34,36

ACCESSION NUMBER: EJ124146
CLEARINGHOUSE ACCESSION NUMBER: EA506333
PUBLICATION DATE: AUG 75
TITLE: A MAJOR STEP FOR SOLAR HEATING
PERSONAL AUTHOR: KULA, ROBERT
DESCRIPTOR: *COMMUNITY COLLEGES; *SOLAR RADIATION; *ENERGY
CONSERVATION; *HEATING; *COST EFFECTIVENESS; *BUILDING
DESIGN; *HIGHER EDUCATION
ISSUE: CIJE1976
ABSTRACT: AN EIGHT-YEAR-OLD RAPIDLY GROWING COMMUNITY
COLLEGE SERVING THE DENVER METROPOLITAN AREA WILL SOON HAVE
THE NATION'S LARGEST SOLAR-ENERGY HEATED INSTALLATION.
(AUTHOR/MLF)
JOURNAL CITATION: PLANNING FOR HIGHER EDUCATION; 4; 4;
27-28

ACCESSION NUMBER: EJ124206
CLEARINGHOUSE ACCESSION NUMBER: EA506404
PUBLICATION DATE: OCT 75
TITLE: IN PERSPECTIVE: THREE UNDERGROUND SCHOOLS
DESCRIPTOR: *ENERGY CONSERVATION; *SPACE UTILIZATION;
*SCHOOL DESIGN; *PLAYGROUNDS; *BUILDING INNOVATION;
*ELEMENTARY EDUCATION
ISSUE: CIJE1976
ABSTRACT: THREE PARTIALLY SUBTERRANEAN SCHOOLS IN SANTA
ANA, CALIFORNIA, ARE EXPECTED TO HAVE LOWER HEATING AND
COOLING COSTS, USING THE ROOF FOR RECREATION AVOIDED THE
EXPENSE OF ADDITIONAL INNER-CITY ACREAGE. (AUTHOR/MLF)
JOURNAL CITATION: PROGRESSIVE ARCHITECTURE; 56; 10; 30

ACCESSION NUMBER: EJ124215
CLEARINGHOUSE ACCESSION NUMBER: EA506413
PUBLICATION DATE: OCT 75
TITLE: ALL-ELECTRIC SCHOOL OPERATES BELOW PROJECTED
ESTIMATE
DESCRIPTOR: *COST EFFECTIVENESS; *ELECTRICAL SYSTEMS;
*BUILDING OPERATION; *BUILDING DESIGN; *ENERGY CONSERVATION;
*WINDOWLESS ROOMS; *SECONDARY EDUCATION
ISSUE: CIJE1976
ABSTRACT: A COST ANALYSIS SHOWS AN ALL-ELECTRIC ILLINOIS
MIDDLE SCHOOL ACTUALLY OPERATING AT LESS THAN THE ORIGINAL
ESTIMATE. (AUTHOR)
JOURNAL CITATION: MODERN SCHOOLS; 8-9

ACCESSION NUMBER: EJ124216
CLEARINGHOUSE ACCESSION NUMBER: EA506414
PUBLICATION DATE: OCT 75
TITLE: HEAT RECOVERY SYSTEMS: THE PROBLEM-SOLVER
DESCRIPTOR: *ENERGY CONSERVATION; *THERMAL ENVIRONMENT;
*SCHOOL IMPROVEMENT; *SCHOOL CONSTRUCTION; *WINDOWLESS ROOMS;
*AIR CONDITIONING EQUIPMENT; *BUILDING DESIGN; *SECONDARY
EDUCATION; *HEAT RECOVERY SYSTEMS
ISSUE: CIJE1976
ABSTRACT: SCHOOL HEAT RECOVERY SYSTEMS ARE INSTALLED IN
CLIMATES AS DIVERSE AS THOSE OF CANADA AND GEORGIA.
(AUTHOR/MLF)
JOURNAL CITATION: MODERN SCHOOLS; 10-12

ACCESSION NUMBER: EJ124465
CLEARINGHOUSE ACCESSION NUMBER: HE506739
PUBLICATION DATE: OCT 75
TITLE: OF CORPORATE BONDAGE
PERSONAL AUTHOR: RIDGEWAY, JAMES
DESCRIPTOR: *HIGHER EDUCATION; *ENERGY CONSERVATION;
*AGRICULTURE; *SCHOOL INDUSTRY RELATIONSHIP; *GOVERNMENT
ROLE; *ENERGY BUSINESS; *AGRICULTURAL RESEARCH PROJECTS;
*INSTITUTIONAL ROLE; *LAND GRANT UNIVERSITIES
ISSUE: CIJE1976
ABSTRACT: WHILE IT IS ENTIRELY POSSIBLE THAT THE
UNIVERSITY WILL CONTINUE TO FUNCTION AS AN ESSENTIAL ARM OF

THE GIANT AGRIBUSINESS AND ENERGY CORPORATIONS, THERE ARE, NEVERTHELESS, A WEALTH OF OPPORTUNITIES FOR IT TO DIRECT ITS ENERGIES TO MORE USEFUL PURPOSES. THE AUTHOR TRACES UNIVERSITIES' PASSIVE INVOLVEMENT NOTING ALTERNATIVES IN ENERGY AND AGRICULTURE FIELDS. (JY)

JOURNAL CITATION: CHANGE; 7; 81 24-29,64

ACCESSION NUMBER: EJ124738

CLEARINGHOUSE ACCESSION NUMBER: SE512970

PUBLICATION DATE: JAN 75

TITLE: THE ENERGY CRISIS: AN OPPORTUNITY FOR MEANINGFUL ARITHMETICAL EXCURSIONS

PERSONAL AUTHOR: POST, THOMAS R.

DESCRIPTOR: *ENERGY; *INSTRUCTIONAL MATERIALS; *INTERDISCIPLINARY APPROACH; *MATHEMATICS EDUCATION; *TEACHING TECHNIQUES; *ACTIVITY LEARNING; *ELEMENTARY SECONDARY EDUCATION; *ELEMENTARY SCHOOL MATHEMATICS; *MATHEMATICAL APPLICATIONS; *SECONDARY SCHOOL MATHEMATICS; ENERGY CRISIS

ISSUE: CIJE1976

JOURNAL CITATION: ARITHMETIC TEACHER; 22; 1; 61-64

ACCESSION NUMBER: EJ124779

CLEARINGHOUSE ACCESSION NUMBER: SE513906

PUBLICATION DATE: JAN 74

TITLE: FILM REVIEWS

PERSONAL AUTHOR: LADD, GEORGE T.

DESCRIPTOR: *EARTH SCIENCE; *FILMS; *INSTRUCTIONAL FILMS; *PHYSICAL SCIENCES; *ECOLOGY; *ENERGY CONSERVATION; *INSTRUCTIONAL AIDS; *INSTRUCTIONAL MEDIA; *SCIENCE EDUCATION; *VISUAL AIDS

ISSUE: CIJE1976

ABSTRACT: BRIEFLY DESCRIBES FILMS ABOUT THE FOLLOWING TOPICS: WATER CYCLES, THE ENERGY CRISIS, THE ERUPTION OF MT. AETNA, THE HOT SPRINGS OF YELLOWSTONE NATIONAL PARK, AND METHODS OF USING PINE CONES TO DETERMINE THE AGES OF ANCIENT CIVILIZATIONS. (MLH)

JOURNAL CITATION: JOURNAL OF GEOLOGICAL EDUCATION; 22; 1; 35

ACCESSION NUMBER: EJ124812

CLEARINGHOUSE ACCESSION NUMBER: SE514135

PUBLICATION DATE: JUN 75

TITLE: GEOTHERMAL ENERGY STIRS WORLDWIDE ACTION

PERSONAL AUTHOR: KRIEGER, JAMES H.

DESCRIPTOR: *ENVIRONMENT; *ENERGY; *ELECTRICITY; *CHEMISTRY; *PHYSICS; *GEOTHERMAL ENERGY

ISSUE: CIJE1976

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53; 23; 21-26

ACCESSION NUMBER: EJ124827

CLEARINGHOUSE ACCESSION NUMBER: SE514292

PUBLICATION DATE: JUN 75

TITLE: SOLAR POWER IN THE MIDDLE EAST

PERSONAL AUTHOR: HAYES, DENIS

DESCRIPTOR: *ECONOMIC FACTORS; *ENERGY; *SOLAR RADIATION; *SCIENTIFIC RESEARCH; *FINANCIAL SUPPORT; *TECHNOLOGY

ISSUE: CIJE1976

ABSTRACT: DESCRIBES THE PRESENT STATE OF SOLAR TECHNOLOGY, POINTS OUT THE NEED FOR RESEARCH AND DEVELOPMENT IN THIS AREA, AND INDICATES THE IMPORTANT ROLE SOLAR TECHNOLOGY COULD PLAY IN THIRD WORLD DEVELOPMENT. (GS)

JOURNAL CITATION: SCIENCE; 188; 4195; 1261

ACCESSION NUMBER: EJ124872

CLEARINGHOUSE ACCESSION NUMBER: SE514429

PUBLICATION DATE: JUN 75

TITLE: ENERGY AND FUEL

PERSONAL AUTHOR: MATTHEW, K.

DESCRIPTOR: *ENERGY; *FUEL CONSUMPTION; *SCIENCE ACTIVITIES; *PHYSICS; *SCIENCE EDUCATION; *SECONDARY SCHOOL SCIENCE; *SECONDARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: OUTLINES A PROJECT IN WHICH THE STUDENTS CALCULATE THEIR FAMILY'S ENERGY BUDGET, PRESENTS EFFICIENCY GUIDELINES FOR VARIOUS APPLIANCES THAT CONVERT TO HEAT OR KINETIC ENERGY. (GS)

JOURNAL CITATION: SCHOOL SCIENCE REVIEW; 56; 197; 790-791

ACCESSION NUMBER: EJ124925

CLEARINGHOUSE ACCESSION NUMBER: SE514608

PUBLICATION DATE: JUL/AUG 75

TITLE: NUCLEAR MISINFORMATION

PERSONAL AUTHOR: FORD, DANIEL F.; KENDALL, HENRY W.

DESCRIPTOR: *ACCIDENT PREVENTION; *ENVIRONMENTAL EDUCATION; *ENERGY; *FEDERAL GOVERNMENT; *SAFETY; *NUCLEAR PHYSICS; *RADIATION; *SCIENTIFIC RESEARCH; *SCIENCE EDUCATION; *SAFETY EQUIPMENT

ISSUE: CIJE1976

ABSTRACT: MANY SCIENTISTS FEEL THAT RESEARCH INTO NUCLEAR SAFETY HAS BEEN DIVERTED OR DISTORTED, AND THE RESULTS OF THE RESEARCH CONCEALED OR INACCURATELY REPORTED ON A LARGE NUMBER OF OCCASIONS. OF PARTICULAR CONCERN HAVE BEEN THE EMERGENCY COOLING SYSTEMS WHICH HAVE NOT, AS YET, BEEN ADEQUATELY TESTED. (AUTHOR/MA)

JOURNAL CITATION: ENVIRONMENT; 17; 5; 17-20,25-27

ACCESSION NUMBER: EJ124926

CLEARINGHOUSE ACCESSION NUMBER: SE514609

PUBLICATION DATE: JUL/AUG 75

TITLE: EXPENSIVE ENRICHMENT

PERSONAL AUTHOR: RESNIKOFF, MARVIN

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *ECONOMIC RESEARCH; *ENERGY; *RADIATION; *SAFETY; *ENVIRONMENTAL INFLUENCES; *ECONOMICS; *FEDERAL GOVERNMENT; *WASTES; *WASTE DISPOSAL

ISSUE: CIJE1976

ABSTRACT: THIS ARTICLE PRESENTS AN ECONOMIC ANALYSIS OF THE NUCLEAR FUEL REPROCESSING INDUSTRY. IT INDICATES THAT WHILE ENVIRONMENTAL SAFETY DEVICES HAVE IMPROVED THE WORKING CONDITIONS, THEY HAVE ALSO ADDED EVER-INCREASING COSTS TO THIS NECESSARY PROCESS. (MA)

JOURNAL CITATION: ENVIRONMENT; 17; 5; 28-35

ACCESSION NUMBER: EJ125781

CLEARINGHOUSE ACCESSION NUMBER: EA506416

PUBLICATION DATE: OCT 75

TITLE: HOLD THE HORSEPOWER

PERSONAL AUTHOR: GARDNER, JOHN C.

DESCRIPTOR: *SCHOOL MAINTENANCE; *ENERGY CONSERVATION; *COMPUTER SCIENCES; *ELECTRICAL SYSTEMS; *COST EFFECTIVENESS; *CLIMATE CONTROL; *HIGHER EDUCATION

ISSUE: CIJE1976

ABSTRACT: A COMPUTER REDUCES ELECTRICITY AND STEAM COSTS AT COLUMBIA UNIVERSITY BY TURNING OFF ONE OR MORE AIR-HANDLING DEVICES FOR A SHORT PERIOD OF TIME IF THE DEMAND EXCEEDS A PRE-SET TARGET. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 48; 2; 16

ACCESSION NUMBER: EJ125788

CLEARINGHOUSE ACCESSION NUMBER: EA506423

PUBLICATION DATE: OCT 75

TITLE: SCHOOL LIGHTING RE-EVALUATED

PERSONAL AUTHOR: STEIN, CARL

DESCRIPTOR: *LIGHTING; *PHYSICAL DESIGN NEEDS; *ENERGY CONSERVATION; *ELECTRICITY; *EQUIPMENT STANDARDS; *TASK PERFORMANCE; *LIGHTING DESIGN; *VISUAL ENVIRONMENT; *COST EFFECTIVENESS

ISSUE: CIJE1976

ABSTRACT: A FUNDAMENTAL CHANGE IN ATTITUDES TOWARD LIGHTING CAN PRODUCE CONSIDERABLE REDUCTIONS IN THE AMOUNT OF ELECTRICITY REQUIRED TO OPERATE EDUCATIONAL AND OTHER FACILITIES. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 48; 2; 70,72-74,76-78

ACCESSION NUMBER: EJ125815

CLEARINGHOUSE ACCESSION NUMBER: EA506460

PUBLICATION DATE: NOV 75

TITLE: THE IMPACT OF THE ENERGY CRISIS ON SCHOOL FINANCE

PERSONAL AUTHOR: ANDERSON, CALVIN E.

DESCRIPTOR: *EDUCATIONAL FINANCE; *ENERGY CONSERVATION; *FUEL CONSUMPTION; *OPERATING EXPENSES; *SCHOOL BUILDINGS; *CONSERVATION EDUCATION; *COSTS; *EDUCATIONAL FACILITIES; *ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: AFTER DISCUSSING THE ENERGY CRISIS AND THE FISCAL PROBLEMS IT IS CREATING FOR EDUCATION, THE AUTHOR SUGGESTS SEVERAL STEPS THAT CAN BE TAKEN TO CUT DOWN ENERGY COSTS, INCLUDING PERFORMING A COMPREHENSIVE ENERGY AUDIT, CONSIDERING LIFE-CYCLE COSTING IN THE PURCHASE OF EQUIPMENT,

AND PURCHASING ENERGY-EFFICIENT EQUIPMENT. (IRT)

JOURNAL CITATION: PHI DELTA KAPPAN; 57: 3; 193-196

ACCESSION NUMBER: EJ125844

CLEARINGHOUSE ACCESSION NUMBER: EA506489

PUBLICATION DATE: NOV 75

TITLE: ECONOMY AND COMFORT: AN ENERGY SYNTHESIS

DESCRIPTOR: *ENERGY CONSERVATION; *LIGHTING; *HEATING;
*SCHOOL DESIGN; FAST TRACK SCHEDULING; ELECTRICAL SYSTEMS;
VOCATIONAL SCHOOLS; SECONDARY SCHOOLS; *HEAT RECOVERY
SYSTEMS

ISSUE: CIJE1976

ABSTRACT: HEAT RECOVERY FROM LIGHTS IS AN ECONOMICAL
PROCESS THAT PROVIDES MAXIMUM COMFORT IN THE CAPITOL AREA
VOCATIONAL CENTER, SPRINGFIELD, ILLINOIS. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS; 4-6

ACCESSION NUMBER: EJ126147

CLEARINGHOUSE ACCESSION NUMBER: HE506795

PUBLICATION DATE: OCT/NOV 75

TITLE: WHERE EDUCATION IS LOSING TOUCH

PERSONAL AUTHOR: EGGERS, MELVIN A.

DESCRIPTOR: *HIGHER EDUCATION; *EDUCATIONAL CHANGE;
*INTELLECTUAL DISCIPLINES; *GENERAL EDUCATION; *SOCIAL
PROBLEMS; SPECIALIZATION; CURRICULUM; PROFESSIONAL
EDUCATION; ENERGY; PUBLIC AFFAIRS EDUCATION

ISSUE: CIJE1976

ABSTRACT: THE CHANCELLOR/PRESIDENT OF SYRACUSE UNIVERSITY
CONTENDS THAT SOCIETY'S PROBLEMS CALL FOR A BROAD APPROACH
BUT COLLEGES ARE PUSHING NARROWED SPECIALITIES. HE PROPOSES
A SYSTEMS APPROACH IN RESTRUCTURING HIGHER EDUCATION TO
TRAIN PROFESSIONALS IN BROAD DISCIPLINES. E.G. A COLLEGE OF
ENERGY SIMILAR TO THE MAXWELL SCHOOL OF CITIZENSHIP AND
PUBLIC AFFAIRS. (JT)

JOURNAL CITATION: COLLEGE STORE JOURNAL; 42: 6; 102-109

ACCESSION NUMBER: EJ126255

CLEARINGHOUSE ACCESSION NUMBER: IR502426

PUBLICATION DATE: NOV 75

TITLE: THE ELECTRIC POWER RESEARCH INSTITUTE. COORDINATED
ENERGY RESEARCH TO MEET A NATIONAL NEED

PERSONAL AUTHOR: HENNING, LAURA H.

DESCRIPTOR: *DATA BASES; *REFERENCE MATERIALS; *ENERGY;
SPECIAL LIBRARIES; ELECTRICITY; INDUSTRY; RESEARCH
LIBRARIES; UTILITIES; ELECTRIC POWER RESEARCH INSTITUTE

ISSUE: CIJE1976

ABSTRACT: IN AN INSTITUTE RESPONSIBLE FOR COORDINATING
RESEARCH AND DEVELOPMENT FOR THE ELECTRIC ENERGY INDUSTRY, A
DATA BASE AND TECHNICAL LIBRARY ARE BEING DEVELOPED TO
PROVIDE FOR INFORMATION AND RESEARCH NEEDS. INCLUDES A
SELECTED BASIC ANNOTATED LIST OF REFERENCE PUBLICATIONS.
(LS)

JOURNAL CITATION: SPECIAL LIBRARIES; 66: 11; 509-514

ACCESSION NUMBER: EJ126284

CLEARINGHOUSE ACCESSION NUMBER: IR502455

PUBLICATION DATE: OCT 75

TITLE: THE POLITICS OF TECHNOLOGICAL FORCES IN LIBRARY
COOPERATION

PERSONAL AUTHOR: KEENAN, BOYD R.

DESCRIPTOR: *LIBRARY COOPERATION; *POLITICS; *ENERGY;
PUBLIC POLICY; TECHNOLOGY

ISSUE: CIJE1976

ABSTRACT: THE EVENTS SURROUNDING THE 1973 ARAB OIL EMBARGO
ILLUSTRATE THAT THE COUNTRY'S WELL-BEING IS LIKELY TO BE
INCREASINGLY DEPENDENT UPON TECHNOLOGICAL INFORMATION
SYSTEMS BUILT BY LIBRARIES. (AUTHOR/PP)

JOURNAL CITATION: LIBRARY TRENDS; 24: 2; 103-90

ACCESSION NUMBER: EJ126432

CLEARINGHOUSE ACCESSION NUMBER: SE513120

PUBLICATION DATE: 75

TITLE: TECHNOLOGICAL LIMITS TO GROWTH REVISITED

PERSONAL AUTHOR: OPHULS, WILLIAM

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *ECONOMICS;
*POPULATION EDUCATION; *SOCIAL FACTORS; *TECHNOLOGICAL
ADVANCEMENT; ATTITUDES; ENERGY; ECOLOGY; NATURAL RESOURCES;
POLLUTION

ISSUE: CIJE1976

ABSTRACT: THE AUTHOR OF THIS ARTICLE ARGUES THE POSITION
THAT TECHNOLOGY IS NOT A CURE-ALL, CAPABLE OF REMOVING
ENVIRONMENTAL CONSTRAINTS INDEFINITELY. HE CONTENDS THAT
CONTINUED TECHNOLOGICAL GROWTH WILL RAISE IMPORTANT
POLITICAL AND MORAL ISSUES THAT CANNOT BE EVADED, RESULTING
IN SOCIAL, POLITICAL, ECONOMIC, AND ETHICAL CHANGE.
(AUTHOR/MA)

JOURNAL CITATION: ALTERNATIVES; 4: 2; 4-11

ACCESSION NUMBER: EJ126435

CLEARINGHOUSE ACCESSION NUMBER: SE513131

PUBLICATION DATE: 75

TITLE: LET'S HALT CANADA'S FISSION PROGRAM

PERSONAL AUTHOR: D'EASUM, LILLE

DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; *SAFETY;
ENVIRONMENTAL EDUCATION; ELECTRICITY; POLLUTION; UTILITIES;
CANADA

ISSUE: CIJE1976

JOURNAL CITATION: ALTERNATIVES; 4: 2; 18-20

ACCESSION NUMBER: EJ126436

CLEARINGHOUSE ACCESSION NUMBER: SE513132

PUBLICATION DATE: 75

TITLE: ALBERTA'S ATHABASCA OIL SANDS: A CANADIAN
PERSPECTIVE

PERSONAL AUTHOR: BRESEE, PAUL; TYLER, STEPHEN

DESCRIPTOR: *ENERGY CONSERVATION; *ENVIRONMENTAL
INFLUENCES; *ECONOMICS; *NATURAL RESOURCES; *RESOURCE
ALLOCATIONS; CONSERVATION EDUCATION; ENVIRONMENTAL
EDUCATION; ECOLOGICAL FACTORS; ENERGY; CANADA

ISSUE: CIJE1976

JOURNAL CITATION: ALTERNATIVES; 4: 2; 21-33

ACCESSION NUMBER: EJ126543

CLEARINGHOUSE ACCESSION NUMBER: SE514302

PUBLICATION DATE: JUL 75

TITLE: NUCLEAR REACTOR SAFETY--THE APS SUBMITS ITS REPORT

DESCRIPTOR: *ENERGY; *ENVIRONMENT; *NUCLEAR PHYSICS;
*SAFETY; *TECHNOLOGY; PHYSICS; PUBLIC HEALTH; *NUCLEAR
REACTIONS

ISSUE: CIJE1976

ABSTRACT: PRESENTS THE SUMMARY SECTION OF THE AMERICAN
PHYSICAL SOCIETY (APS) REPORT ON THE SAFETY FEATURES OF THE
LIGHT-WATER REACTOR. REVIEWS THE DESIGN, CONSTRUCTION, AND
OPERATION OF A REACTOR AND OUTLINES THE PRIMARY ENGINEERED
SAFETY FEATURES. SUMMARIZES THE MAJOR RECOMMENDATIONS OF THE
STUDY GROUP. (GS)

JOURNAL CITATION: PHYSICS TODAY; 28: 7; 38-43

ACCESSION NUMBER: EJ126556

CLEARINGHOUSE ACCESSION NUMBER: SE514362

PUBLICATION DATE: JUL 75

TITLE: ENERGY AND RESOURCES

PERSONAL AUTHOR: SORENSEN, BENT

DESCRIPTOR: *DEPLETED RESOURCES; *ECONOMIC FACTORS;
*ENERGY; *NATURAL RESOURCES; ENERGY CONSERVATION; FUELS;
SOLAR RADIATION; DENMARK; WIND ENERGY

ISSUE: CIJE1976

ABSTRACT: DISCUSSES THE FEASIBILITY OF UTILIZING CONTINUOUS
SOURCES OF ENERGY, PARTICULARLY SOLAR AND WIND ENERGY.
OUTLINES AN ENERGY PLAN FOR DENMARK, WHICH WOULD SUPPLY ALL
OF DENMARK'S ENERGY NEEDS BY THE YEAR 2050. (HLH)

JOURNAL CITATION: SCIENCE; 189: 4199; 255-260

ACCESSION NUMBER: EJ126631

CLEARINGHOUSE ACCESSION NUMBER: SE514610

PUBLICATION DATE: AUG 75

TITLE: WATER REUSE RECONSIDERED

DESCRIPTOR: *ENVIRONMENT; *METALS; *RECYCLING; *WATER
POLLUTION CONTROL; *WATER RESOURCES; CONFERENCE REPORTS;
ENERGY; MANAGEMENT SYSTEMS; POLLUTION; WASTE DISPOSAL; HEAVY
METALS

ISSUE: CIJE1976

ABSTRACT: THE SECOND NATIONAL CONFERENCE ON COMPLETE
WATER REUSE STRESSED BETTER PLANNING, MANAGEMENT, AND USE OF
WATER. THE SESSIONS COVERED: WATER REUSE AND ITS PROBLEMS;
WATER'S INTERFACE WITH AIR AND LAND; AND MODIFICATION OF
THESE INTERACTIONS BY THE IMPOSITION OF ENERGY AND HEAVY
METALS IN THE ENVIRONMENT AND METHODS FOR THEIR REMOVAL.
(BT)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 9:

ACCESSION NUMBER: EJ126651
 CLEARINGHOUSE ACCESSION NUMBER: SE514632
 PUBLICATION DATE: SEP 75
 TITLE: SOLAR ENERGY DEVELOPMENT PROGRESSES
 DESCRIPTOR: *ESTIMATED COSTS; *ENERGY; *ENGINEERING TECHNOLOGY; *FEASIBILITY STUDIES; *SOLAR RADIATION; *CONFERENCE; *COST EFFECTIVENESS; *SCIENCE EDUCATION; *TECHNOLOGICAL ADVANCEMENT; *TECHNOLOGY
 ISSUE: CIJE1976

ABSTRACT: DISCUSSES AN ENGINEERING CONFERENCE AT WHICH PARTICIPANTS AGREED THAT SOLAR ENERGY IS A FEASIBLE ENERGY SOURCE, ALTHOUGH COSTS OF SUCH TECHNOLOGY ARE PRESENTLY VERY HIGH. ALSO DESCRIBES RECENT DEVELOPMENTS IN SOLAR ENERGY RESEARCH, AND ESTIMATES THE COSTS OF THIS TECHNOLOGY. (MLH)
 JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 53; 35; 18-19

ACCESSION NUMBER: EJ126660
 CLEARINGHOUSE ACCESSION NUMBER: SE514642
 PUBLICATION DATE: 75
 TITLE: THE REAL LIMITS TO GROWTH
 PERSONAL AUTHOR: ROSS, W. A.
 DESCRIPTOR: *POPULATION GROWTH; *POPULATION TRENDS; *SOCIAL PROBLEMS; *DEMOGRAPHY; *ENERGY CONSERVATION; *ENVIRONMENTAL CRITERIA; *POPULATION DISTRIBUTION; *POPULATION EDUCATION; *NATURAL RESOURCES
 ISSUE: CIJE1976

ABSTRACT: FUNDAMENTAL CONSERVATION PRINCIPLES INDICATE EXISTENCE OF A LIMIT TO GROWTH OPERATIVE IN THE NEAR FUTURE. GENERAL PROPERTIES OF GEOMETRIC GROWTH ARE PRESENTED WITH TIMESCALES SHOWING POPULATION INCREASES. PROJECTIONS FOR NATURAL AND ENERGY RESOURCE CONSUMPTION ARE EXAMINED. (BP)
 JOURNAL CITATION: ALTERNATIVES; 4; 4; 4-13

ACCESSION NUMBER: EJ126663
 CLEARINGHOUSE ACCESSION NUMBER: SE514652
 PUBLICATION DATE: SEP 75
 TITLE: A TOLERABLE GROWTH
 PERSONAL AUTHOR: DOWNS, HUGH
 DESCRIPTOR: *ELEMENTARY EDUCATION; *FUTURES (OF SOCIETY); *POPULATION GROWTH; *SCIENCE EDUCATION; *SPEECHES; *ELEMENTARY SCHOOL SCIENCE; *ENERGY; *ECONOMICS
 ISSUE: CIJE1976

ABSTRACT: PRESENTS EXCERPTS FROM THE SPEECH GIVEN BY HUGH DOWNS AT THE ELEMENTARY SCIENCE LUNCHEON, 1975 NATIONAL CONVENTION OF THE NATIONAL SCIENCE TEACHERS ASSOCIATION (NSTA), IN LOS ANGELES LAST MARCH. (PEB)
 JOURNAL CITATION: SCIENCE AND CHILDREN; 13; 1; 9-11

ACCESSION NUMBER: EJ126702
 CLEARINGHOUSE ACCESSION NUMBER: SE514843
 PUBLICATION DATE: SEP 75
 TITLE: SOLUTION OF THE SCHRODINGER EQUATION FOR THE HYDROGEN ATOM USING A MODULAR ANALOGUE COMPUTING SYSTEM
 PERSONAL AUTHOR: SUMMERS, M. K.
 DESCRIPTOR: *ATOMIC STRUCTURE; *COLLEGE SCIENCE; *COMPUTER ASSISTED INSTRUCTION; *PHYSICS; *QUANTUM MECHANICS; *ENERGY; *HIGHER EDUCATION; *INSTRUCTION; *NUCLEAR PHYSICS; *SCIENCE EDUCATION
 ISSUE: CIJE1976
 JOURNAL CITATION: PHYSICS EDUCATION; 10; 6; 424-429

ACCESSION NUMBER: EJ126785
 CLEARINGHOUSE ACCESSION NUMBER: SE514846
 PUBLICATION DATE: SEP 75
 TITLE: THE POWER STATION GAME
 PERSONAL AUTHOR: ELLINGTON, M. I.; LANGTON, N. M.
 DESCRIPTOR: *ENERGY; *FUELS; *PHYSICS; *SCIENCE ACTIVITIES; *UTILITIES; *DEBATES; *INSTRUCTION; *SCIENCE EDUCATION; *SECONDARY SCHOOL SCIENCE; *SECONDARY EDUCATION
 ISSUE: CIJE1976

ABSTRACT: DESCRIBES A THREE DAY ACTIVITY IN WHICH STUDENTS DIVIDE INTO GROUPS, EACH GROUP ARGUING FOR THE CONSTRUCTION OF A POWER PLANT USING COAL, OIL OR NUCLEAR ENERGY. (CP)
 JOURNAL CITATION: PHYSICS EDUCATION; 10; 6; 445-447

ACCESSION NUMBER: EJ126786
 CLEARINGHOUSE ACCESSION NUMBER: SE514847
 PUBLICATION DATE: SEP 75
 TITLE: THE PHYSICS OF POWER STATIONS. PART I: FOSSIL FUELLED POWER STATIONS
 PERSONAL AUTHOR: LANGTON, N. M.; ELLINGTON, M. I.
 DESCRIPTOR: *ENERGY; *ELECTRICITY; *FUELS; *PHYSICS; *UTILITIES; *ENVIRONMENT
 ISSUE: CIJE1976

ABSTRACT: THE ENERGY LOSSES AND OUTPUT OF A MODERN POWER PLANT USING COAL AND FUEL OIL ARE QUANTITATIVELY PRESENTED. (CP)
 JOURNAL CITATION: PHYSICS EDUCATION; 10; 6; 448-452

ACCESSION NUMBER: EJ126790
 CLEARINGHOUSE ACCESSION NUMBER: SE514851
 PUBLICATION DATE: OCT 75
 TITLE: ENERGY IN THE CLASSROOM
 PERSONAL AUTHOR: NIMAN, JOHN
 DESCRIPTOR: *DEPLETED RESOURCES; *ENERGY; *INSTRUCTION; *PHYSICAL SCIENCES; *SCIENCE ACTIVITIES; *CONSERVATION (ENVIRONMENT); *SCIENCE EDUCATION; *SECONDARY SCHOOL SCIENCE; *SECONDARY EDUCATION
 ISSUE: CIJE1976
 ABSTRACT: DETAILS APPROACHES WHICH MAY BE USED TO PRESENT ENERGY RELATED TOPICS TO SECONDARY SCHOOL STUDENTS. (CP)
 JOURNAL CITATION: SCHOOL SCIENCE AND MATHEMATICS; 75; 6; 492-496

ACCESSION NUMBER: EJ126839
 CLEARINGHOUSE ACCESSION NUMBER: SE514938
 PUBLICATION DATE: OCT 75
 TITLE: SCIENCE/SOCIETY CASE STUDY-FISSION POWER
 PERSONAL AUTHOR: MOORE, JOHN M., ED.; MOORE, ELIZABETH A., ED.
 DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *NUCLEAR PHYSICS; *RADIATION; *UTILITIES; *ECOLOGY; *FUELS; *NATURAL RESOURCES; *SCIENCE EDUCATION; *NUCLEAR REACTORS
 ISSUE: CIJE1976
 ABSTRACT: EXPLAINS THE NUCLEAR FISSION PROCESS AND TYPES OF REACTORS CURRENTLY IN OPERATION. (CP)
 JOURNAL CITATION: SCIENCE TEACHER; 42; 8; 21-22

ACCESSION NUMBER: EJ126843
 CLEARINGHOUSE ACCESSION NUMBER: SE514942
 PUBLICATION DATE: OCT 75
 TITLE: ENTERING A NEW ENERGY AGE
 PERSONAL AUTHOR: FOWLER, JOHN M.
 DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *ECOLOGY; *PETROLEUM INDUSTRY; *SECONDARY SCHOOL SCIENCE; *CONSERVATION (ENVIRONMENT); *INSTRUCTIONAL MATERIALS; *SCIENCE EDUCATION; *SECONDARY EDUCATION
 ISSUE: CIJE1976
 ABSTRACT: DISCUSSES THE OIL EMBARGO AND ITS EFFECTS ON THE UNITED STATES. ALSO ASSESSES THE PRESENT ENERGY SITUATION, SOURCES AND USERS OF ENERGY, THREATS TO THE ENVIRONMENT, AND THE PROSPECT OF NUCLEAR ENERGY FOR THE FUTURE. (CP)
 JOURNAL CITATION: SCIENCE TEACHER; 42; 8; 32-38

ACCESSION NUMBER: EJ126887
 CLEARINGHOUSE ACCESSION NUMBER: SD504132
 PUBLICATION DATE: JUN 75
 TITLE: ENERGY
 PERSONAL AUTHOR: NESBITT, WILLIAM A.; KARLS, ANDREA B.
 DESCRIPTOR: *GLOBAL APPROACH; *WORLD PROBLEMS; *NATURAL RESOURCES; *ENV (GV); *CLASS ACTIVITIES; *DEPLETED RESOURCES; *DATA ANALYSIS; *INSTRUCTIONAL MATERIALS; *SOCIAL STUDIES UNITS; *SECONDARY EDUCATION
 ISSUE: CIJE1976
 ABSTRACT: DATA AND ACTIVITIES EXAMINING THE SOURCES AND USES OF ENERGY ARE INCLUDED. (CE)
 JOURNAL CITATION: INTERCOM; 78; 19-22

ACCESSION NUMBER: EJ127684
 CLEARINGHOUSE ACCESSION NUMBER: EA506595
 PUBLICATION DATE: DEC 75

TITLE: ENERGY CONSERVATION DICTATES ELECTRIC HEAT
DESCRIPTOR: *ELECTRICITY; *ENERGY CONSERVATION; *HEATING;
*SCHOOL DESIGN; COST EFFECTIVENESS; ELEMENTARY EDUCATION
ISSUE: CIJE1976
ABSTRACT: ELECTRICITY AS AN ENERGY SOURCE, COUPLED WITH A
HEAT RECOVERY SYSTEM, HAS BEEN SELECTED FOR A MIDDLE SCHOOL
IN NEW JERSEY. (AUTHOR/MLP)
JOURNAL CITATION: MODERN SCHOOLS; 13

ACCESSION NUMBER: EJ120189
CLEARINGHOUSE ACCESSION NUMBER: SE514649

PUBLICATION DATE: SEP 75
TITLE: IS MASS TRANSIT POSSIBLE?

DESCRIPTOR: *ENVIRONMENT; *MOTOR VEHICLES; *TRANSPORTATION;
ENERGY; FUELS; POLLUTION; TECHNOLOGY; URBAN ENVIRONMENT;
MASS TRANSIT
ISSUE: CIJE1976

ABSTRACT: MASS TRANSIT IS POSSIBLE IN THE UNITED STATES,
BUT ONLY IF THE FORM IT TAKES OFFERS AMERICANS THE QUALITY
OF RIDE—CHEAP, PRIVATE AND RAPID—THEY NOW HAVE IN THE
AUTOMOBILE. IF THESE CRITERIA ARE NOT ACHIEVED, AMERICANS
WILL CONTINUE TO DRIVE. (BT)
JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 9;
9: 816-818

ACCESSION NUMBER: EJ120195
CLEARINGHOUSE ACCESSION NUMBER: SE514698

PUBLICATION DATE: SEP 75
TITLE: AN INTRODUCTION TO THE ISSUES
PERSONAL AUTHOR: PRINACK, JOEL

DESCRIPTOR: *ACCIDENTS; *ENVIRONMENT; *ENVIRONMENTAL
INFLUENCES; *NUCLEAR PHYSICS; *SAFETY; ENERGY; PHYSICS;
POLLUTION; WASTES; WORLD PROBLEMS; *NUCLEAR REACTIONS;
RASMUSSEN REPORT
ISSUE: CIJE1976

ABSTRACT: THE REACTOR SAFETY CONTROVERSY IS REVIEWED IN
LIGHT OF THE UNITED STATES ATOMIC ENERGY COMMISSION'S
REACTOR SAFETY STUDY AND THE REPORT TO THE AMERICAN PHYSICAL
SOCIETY BY THE STUDY GROUP ON LIGHT WATER REACTOR SAFETY.
AREAS OF AGREEMENT AND DISAGREEMENT ARE IDENTIFIED AND
IMPLICATIONS FOR NATIONAL POLICY ARE EXPLORED. (BT)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 31; 7;
15-16,18-19

ACCESSION NUMBER: EJ120197
CLEARINGHOUSE ACCESSION NUMBER: SE514700

PUBLICATION DATE: SEP 75
TITLE: A PERSPECTIVE ON THE DEBATE
PERSONAL AUTHOR: VON HIPPEL, FRANK

DESCRIPTOR: *ACCIDENTS; *ELECTRICITY; *ENVIRONMENT;
*NUCLEAR PHYSICS; *SAFETY; ENERGY; FUELS; POLLUTION;
RADIOISOTOPES; UTILITIES; *NUCLEAR REACTIONS; RASMUSSEN
REPORT
ISSUE: CIJE1976

ABSTRACT: NONE OF SOCIETY'S CURRENT SOURCES OF ELECTRICITY
ARE RISK FREE. FISSION, OIL, AND COAL POWER ALL HAVE THE
POTENTIAL FOR TRIGGERING MAJOR SOCIAL OR ENVIRONMENTAL
INSTABILITIES. THE RISKS ASSOCIATED WITH NUCLEAR-ELECTRIC
ENERGY MUST BE WEIGHED AGAINST THOSE OF THE ALTERNATIVES.
SUGGESTIONS FOR IMPROVING REACTOR SAFETY ARE DISCUSSED. (BT)
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 31; 7;
37-39

ACCESSION NUMBER: EJ120199
CLEARINGHOUSE ACCESSION NUMBER: SE514702

PUBLICATION DATE: SEP 75
TITLE: ENERGY CHOICES AND PUBLIC POLICY
PERSONAL AUTHOR: FISHER, JOSEPH L.

DESCRIPTOR: *ENERGY; *ENVIRONMENT; *ECONOMICS; *FEDERAL
LEGISLATION; *ENERGY CONSERVATION; DECISION MAKING;
ENVIRONMENTAL INFLUENCES; POLICY FORMATION; PUBLIC POLICY;
CLEAN AIR ACT
ISSUE: CIJE1976

ABSTRACT: CONGRESSMAN JOSEPH L. FISHER'S MAIN CONCERN IS
HOW TO BEST BRING TOGETHER, BALANCE OFF, AND COMPROMISE
ENERGY, THE ENVIRONMENT, AND THE ECONOMY. PRESENTED ARE
ALTERNATIVES FOR THE IMMEDIATE FUTURE (NEXT TWO TO THREE
YEARS), FOR THE NEXT TEN YEARS, AND FOR PLANNING BEYOND
1985. (BT)
JOURNAL CITATION: JOURNAL OF THE AIR POLLUTION CONTROL
ASSOCIATION; 25; 9; 910-912

ACCESSION NUMBER: EJ120200
CLEARINGHOUSE ACCESSION NUMBER: SE514703

PUBLICATION DATE: SEP 75
TITLE: A POLICY OF OPTIONS
PERSONAL AUTHOR: FRI, ROBERT W.

DESCRIPTOR: *ECONOMICS; *ENERGY; *ENVIRONMENT; *FEDERAL
PROGRAMS; *TECHNOLOGICAL ADVANCEMENT; ENVIRONMENTAL
INFLUENCES; ENVIRONMENTAL RESEARCH; FEDERAL GOVERNMENT;
NATURAL RESOURCES; POLLUTION; ENERGY RESEARCH AND
DEVELOPMENT ADMINISTRATION; ERDA
ISSUE: CIJE1976

ABSTRACT: THE ENERGY RESEARCH AND DEVELOPMENT
ADMINISTRATION'S PROGRAM TO DEAL WITH THE RELATIONSHIP OF
ENERGY AND THE ENVIRONMENT IS EXAMINED. ALTERNATIVES INCLUDE
THE DEVELOPMENT OF NEW ENERGY SOURCES THAT OFFER A VIABLE
CHOICE FOR THE FUTURE FOR ECONOMICALLY FEASIBLE AND
ENVIRONMENTALLY ACCEPTABLE TECHNOLOGIES. (BT)
JOURNAL CITATION: JOURNAL OF THE AIR POLLUTION CONTROL
ASSOCIATION; 25; 9; 912-914

ACCESSION NUMBER: EJ120201
CLEARINGHOUSE ACCESSION NUMBER: SE514704

PUBLICATION DATE: SEP 75
TITLE: HEALTH EFFECTS AND ENERGY CHOICES
PERSONAL AUTHOR: NEWILL, VAUN A.

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENERGY; *ENVIRONMENT;
*FEDERAL PROGRAMS; *PUBLIC HEALTH; COST EFFECTIVENESS;
ECONOMICS; ENVIRONMENTAL RESEARCH; POLICY FORMATION;
POLLUTION
ISSUE: CIJE1976

ABSTRACT: THE UNITED STATES WILL CONTINUE TO HAVE A HIGH
ENERGY DEMAND TO MAINTAIN OUR PRESENT LIFE STYLE. THE
DEVELOPMENT OF A NATIONAL HEALTH POLICY STATEMENT THAT WOULD
SERVE TO COORDINATE FEDERAL PROGRAMS FOR RESEARCH AND
REGULATION OF ENVIRONMENTAL HEALTH IS SUGGESTED. (BT)
JOURNAL CITATION: JOURNAL OF THE AIR POLLUTION CONTROL
ASSOCIATION; 25; 9; 914-917

ACCESSION NUMBER: EJ120219
CLEARINGHOUSE ACCESSION NUMBER: SE514722

PUBLICATION DATE: JUL 75
TITLE: THE URANIUM CONTROVERSY
PERSONAL AUTHOR: MCCARTHY, I. E.

DESCRIPTOR: *ENERGY; *FUELS; *RADIATION EFFECTS; ENERGY
CONSERVATION; NATURAL RESOURCES; NUCLEAR PHYSICS; RADIATION;
SCIENCE EDUCATION; *NUCLEAR ENERGY
ISSUE: CIJE1976

ABSTRACT: CITES MANY HAZARDS PERTAINING TO NUCLEAR-FUELED
ENERGY AND OUTLINES MANY ALTERNATIVES TO THIS TYPE OF
ENERGY, SUCH AS THE DEVELOPMENT OF SOLAR ENERGY AND EXISTING
COAL RESERVES, AND THE WORLDWIDE REDUCTION IN ENERGY
CONSUMPTION. (MLM)
JOURNAL CITATION: SOUTH AUSTRALIAN SCIENCE TEACHERS
JOURNAL; 752; 31-33

ACCESSION NUMBER: EJ120208
CLEARINGHOUSE ACCESSION NUMBER: SE514919

PUBLICATION DATE: SEP 75
TITLE: TEACHING CONCEPTS IN SECONDARY SCHOOL SCIENCE
PERSONAL AUTHOR: SHELLEY, B. W. J.

DESCRIPTOR: *CONCEPT TEACHING; *CONCEPT FORMATION;
*CURRICULUM DEVELOPMENT; *INSTRUCTION; ENERGY; SCIENCE
EDUCATION; SECONDARY SCHOOL SCIENCE; SECONDARY EDUCATION;
SEQUENTIAL LEARNING; *NUFFIELD PROJECT
ISSUE: CIJE1976

ABSTRACT: QUESTIONS THE APPROACH USED TO THE TOPIC OF
ENERGY IN NUFFIELD SECONDARY SCIENCE. INDICATES THAT
14-YEAR-OLD CHILDREN WILL NOT BE ABLE TO GENERALIZE FROM THE
EXPERIMENTS YES SEE A PATTERN EMERGING, AND THE CONCEPT OF
ENERGY INVOLVES UNDERSTANDING OF OTHER CONCEPTS THAT THE
CHILDREN HAVE NOT YET ATTAINED. (GS)
JOURNAL CITATION: SCHOOL SCIENCE REVIEW; 57; 198; 155-157

ACCESSION NUMBER: EJ120305
CLEARINGHOUSE ACCESSION NUMBER: SE514968

PUBLICATION DATE: SEP/OCT 75
TITLE: A TORNADO IN A BOX: INVESTIGATING ENERGY
RELATIONSHIPS
PERSONAL AUTHOR: EXLINE, JOSEPH D.

DESCRIPTOR: *EARTH SCIENCE; *ENERGY; *INSTRUCTION; *SCIENCE
EXPERIMENTS; *SECONDARY SCHOOL SCIENCE; METEOROLOGY; SCIENCE
ACTIVITIES; SCIENCE EDUCATION; SECONDARY EDUCATION; TEACHING
MODELS

ISSUE: CIJE1976

ABSTRACT: USES A VORTEX DEVICE AS A MODEL TO STUDY LOW-PRESSURE SYSTEMS AND OTHER RELATED INVESTIGATIONS. (LS)

JOURNAL CITATION: SCIENCE ACTIVITIES; 12; 5; 27-29

ACCESSION NUMBER: EJ128322

CLEARINGHOUSE ACCESSION NUMBER: SE515001

PUBLICATION DATE: OCT 75

TITLE: DIALING DOWN: THE ENERGY CRISIS

PERSONAL AUTHOR: KROCKOVER, GERALD H.

DESCRIPTOR: *ENERGY CONSERVATION; *SCIENCE ACTIVITIES; *CONSERVATION EDUCATION; *ELEMENTARY SECONDARY EDUCATION; *ENERGY PROCESS EDUCATION; *SCIENCE EDUCATION

ISSUE: CIJE1976

ABSTRACT: ACTIVITIES ARE SUGGESTED AND PRESENTED IN SOME DETAIL SO THAT SCIENCE PROCESS SKILLS CAN BE APPLIED TO THE STUDY OF ENERGY CONSERVATION. PRESENTED ARE SOME OBSERVING ACTIVITIES AND MEASURING ACTIVITIES. A TABLE PRESENTING ENERGY USED BY HOME APPLIANCES IS INCLUDED. (EB)

JOURNAL CITATION: SCIENCE AND CHILDREN; 13; 2; 18-19

ACCESSION NUMBER: EJ128401

CLEARINGHOUSE ACCESSION NUMBER: SE515103

PUBLICATION DATE: NOV 75

TITLE: MHD POWER GENERATION

PERSONAL AUTHOR: KANTROWITZ, ARTHUR; ROSA, RICHARD J.

DESCRIPTOR: *ENERGY; *ENVIRONMENT; *FUELS; *UTILITIES; *ELECTRICITY; *PHYSICS; *POLLUTION; *TECHNOLOGY; *POWER GENERATION

ISSUE: CIJE1976

ABSTRACT: EXPLAINS THE OPERATION OF THE MAGNETOHYDRODYNAMIC (MHD) GENERATOR AND ADVANTAGES OF THE SYSTEM OVER COAL, OIL OR NUCLEAR POWERED GENERATORS. DETAILS THE DEVELOPMENT OF MHD GENERATORS IN THE UNITED STATES AND SOVIET UNION. (CP)

JOURNAL CITATION: PHYSICS TEACHER; 13; 8; 455-464

ACCESSION NUMBER: EJ128404

CLEARINGHOUSE ACCESSION NUMBER: SE515106

PUBLICATION DATE: NOV 75

TITLE: THE NEW PARTICLES--WHAT GOOD ARE THEY?

PERSONAL AUTHOR: DREITELIN, JOSEPH

DESCRIPTOR: *ATOMIC STRUCTURE; *NUCLEAR PHYSICS; *PHYSICS; *SECONDARY SCHOOL SCIENCE; *THEORIES; *ENERGY; *INSTRUCTION; *SCIENCE EDUCATION; *SECONDARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: REPORTS ON THE PRODUCTION, PROPERTIES, AND INTERNAL STRUCTURE OF SEVERAL OF THE ELEMENTARY PARTICLES IN LANGUAGE UNDERSTANDABLE TO THE HIGH SCHOOL STUDENT. (CP)

JOURNAL CITATION: PHYSICS TEACHER; 13; 8; 476-479

ACCESSION NUMBER: EJ128424

CLEARINGHOUSE ACCESSION NUMBER: SE515127

PUBLICATION DATE: NOV 75

TITLE: OFFICE OF BIOLOGICAL SERVICES BEGINS ENVIRONMENTAL STUDIES

DESCRIPTOR: *BIOLOGICAL SCIENCES; *ENERGY; *ENERGY CONSERVATION; *ENVIRONMENTAL RESEARCH; *FEDERAL PROGRAMS; *ECOLOG; *ENVIRONMENTAL EDUCATION

ISSUE: CIJE1976

ABSTRACT: DESCRIBES THE PROJECTS UNDERTAKEN BY EACH OF FOUR TEAMS WORKING IN DIFFERENT AREAS OF ENVIRONMENTAL RESEARCH. (LS)

JOURNAL CITATION: BIOSCIENCE; 29; 11; 758

ACCESSION NUMBER: EJ128463

CLEARINGHOUSE ACCESSION NUMBER: SE515294

PUBLICATION DATE: NOV 75

TITLE: A COURSE ON ENERGY RESOURCES AND SUPPLY

PERSONAL AUTHOR: McMULLAN, J. T.; AND OTHERS

DESCRIPTOR: *COURSE DESCRIPTIONS; *ENVIRONMENTAL EDUCATION; *ENERGY; *NATURAL RESOURCES; *UTILITIES; *CURRICULUM DEVELOPMENT; *INSTRUCTIONAL MATERIALS; *SCIENCE EDUCATION; *TEACHING GUIDES

ISSUE: CIJE1976

ABSTRACT: PRESENTS THE SYLLABUS FOR A NINE WEEK, COLLEGE LEVEL UNIT ON ENERGY TOPICS. (CP)

JOURNAL CITATION: PHYSICS EDUCATION; 10; 7; 493-495

ACCESSION NUMBER: EJ129306

CLEARINGHOUSE ACCESSION NUMBER: EA506590

PUBLICATION DATE: DEC 75

TITLE: FOCUS ON ENERGY

PERSONAL AUTHOR: IANDALE, RONALD J.

DESCRIPTOR: *ENERGY CONSERVATION; *SCHOOL DESIGN; *FACILITY GUIDELINES; *SITE SELECTION; *THERMAL ENVIRONMENT

ISSUE: CIJE1976

ABSTRACT: THREE DESIGN CRITERIA DETERMINE THE AMOUNT OF ENERGY CONSUMED IN A BUILDING: ORIENTATION, CONFIGURATION, AND ENVELOPE. (AUTHOR/MLF)

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS; 41; 12; 283-286

ACCESSION NUMBER: EJ129334

CLEARINGHOUSE ACCESSION NUMBER: EA506643

PUBLICATION DATE: DEC 75

TITLE: SCHOOL DESIGNED TO USE 80 PERCENT LESS ENERGY

DESCRIPTOR: *ENERGY CONSERVATION; *SCHOOL DESIGN; *SOLAR RADIATION; *ROOFING; *BUILDING INNOVATION; *CLIMATE CONTROL; *ELEMENTARY EDUCATION; *UNDERGROUND BUILDINGS

ISSUE: CIJE1976

ABSTRACT: THE NEW TERRASET ELEMENTARY SCHOOL IN RESTON, VIRGINIA, USES EARTH AS A COVER FOR THE ROOF AREA AND FOR ABOUT 80 PERCENT OF THE WALL AREA. A HEAT RECOVERY SYSTEM WILL BE USED WITH SOLAR COLLECTORS PLAYING A PRIMARY ROLE IN HEATING AND COOLING. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 48; 4; 47-49

ACCESSION NUMBER: EJ129375

CLEARINGHOUSE ACCESSION NUMBER: EA506684

PUBLICATION DATE: JAN 76

TITLE: A BIRD'S EYE VIEW OF ENERGY CONSERVATION

DESCRIPTOR: *ENERGY CONSERVATION; *ROOFING; *MERCHANDISE INFORMATION; *BUILDING MATERIALS; *SCHOOL MAINTENANCE

ISSUE: CIJE1976

ABSTRACT: TWO ROOFING SYSTEMS CURRENTLY AVAILABLE ARE SILICONE/URETHANE (A RELATIVELY NEW DEVELOPMENT) AND BUILT-UP ROOFING SYSTEMS THAT COMBINE A VARIETY OF INSULATING MATERIALS. (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS; 4-7

ACCESSION NUMBER: EJ129376

CLEARINGHOUSE ACCESSION NUMBER: EA506685

PUBLICATION DATE: JAN 76

TITLE: UNDERGROUND SCHOOL PROVIDES ENERGY EFFICIENCY

DESCRIPTOR: *ENERGY CONSERVATION; *SCHOOL DESIGN; *HEATING; *OPEN PLAN SCHOOLS; *ELEMENTARY EDUCATION; *UNDERGROUND BUILDINGS

ISSUE: CIJE1976

ABSTRACT: THE FREMONT ELEMENTARY SCHOOL IN SANTA ANA, CALIFORNIA, BUILT UNDERGROUND, PROVIDES AN EARTHQUAKE RESISTANT STRUCTURE, CONSERVES ENERGY, AND MAKES BETTER USE OF LAND. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS; 8-9

ACCESSION NUMBER: EJ129379

CLEARINGHOUSE ACCESSION NUMBER: EA506688

PUBLICATION DATE: DEC 75

TITLE: SOLAR ENERGY. AN EMERGING TECHNOLOGY

PERSONAL AUTHOR: O'HAIR, JOHN H.

DESCRIPTOR: *SOLAR RADIATION; *TECHNOLOGICAL ADVANCEMENT; *HEATING; *AIR CONDITIONING; *TECHNOLOGY; *MERCHANDISE INFORMATION; *ENERGY CONSERVATION

ISSUE: CIJE1976

ABSTRACT: AN OVERVIEW OF SOLAR ENERGY PROVES THAT A PRACTICAL HEATING AND DOMESTIC HOT WATER SOLAR SYSTEM CAN BE BUILT UTILIZING OFF-THE-SHELF EQUIPMENT AT A RELATIVELY LOW COST. (AUTHOR/MLF)

JOURNAL CITATION: CONSULTING ENGINEER; 45; 6; 49-52

ACCESSION NUMBER: EJ129380

CLEARINGHOUSE ACCESSION NUMBER: EA506692

PUBLICATION DATE: DEC 75

TITLE: QUICK TELL ME HOW TO BUY . . . WINDOWS

DESCRIPTOR: *WINDOWS; *SCHOOL MAINTENANCE; *FACILITY GUIDELINES; *SCHOOL IMPROVEMENT; *MERCHANDISE INFORMATION

ENERGY CONSERVATION

ISSUE: CIJE1976

ABSTRACT: PRESENTS INDICATORS TO DETERMINE IF WINDOWS SHOULD BE REPLACED, AND INFORMATION ABOUT NEW TYPES OF WINDOWS AVAILABLE. (MLF)

JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL; 162; 12; 8

ACCESSION NUMBER: EJ129396

CLEARINGHOUSE ACCESSION NUMBER: EAS06712

PUBLICATION DATE: JAN 76

TITLE: PUBLIC SCHOOLS ENERGY CONSERVATION SERVICE

PERSONAL AUTHOR: STEPHAN, EDWARD

DESCRIPTOR: *ENERGY CONSERVATION; *GUIDELINES; *COST EFFECTIVENESS; *SCHOOL IMPROVEMENT; *SCHOOL DISTRICTS; PUBLIC SCHOOLS ENERGY CONSERVATION SERVICE (PSECS)

ISSUE: CIJE1976

ABSTRACT: THE PUBLIC SCHOOLS ENERGY CONSERVATION SERVICE (PSECS) CAN PROVIDE SCHOOL DISTRICTS THE INFORMATION THAT IF SERIOUSLY AND APPROPRIATELY USED, WILL RESULT IN MAJOR ENERGY AND COST SAVINGS. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 48; 5; 43-44

ACCESSION NUMBER: EJ129972

CLEARINGHOUSE ACCESSION NUMBER: RC501013

PUBLICATION DATE: OCT-NOV 75

TITLE: THE MID-APPALACHIA WHITE HOUSE CONFERENCE

DESCRIPTOR: *EDUCATION; *EMPLOYMENT; *ENERGY; *ECONOMIC STATUS; *CONSERVATION (ENVIRONMENT); *FEDERAL STATE RELATIONSHIP; *HEALTH; *MANPOWER DEVELOPMENT; *RURAL DEVELOPMENT; *MID APPALACHIA WHITE HOUSE CONFERENCE

ISSUE: CIJE1976

ABSTRACT: THIRTEEN SEPARATE EXCERPTS FROM THE RESPONSES GIVEN TO AUDIENCE QUESTIONS AT THE MID-APPALACHIA WHITE HOUSE CONFERENCE INCLUDE REMARKS BY PRESIDENT FORD AND OTHERS OF HIS CABINET ON EDUCATION, ENERGY, EMPLOYMENT, RURAL DEVELOPMENT, THE ECONOMIC STATUS OF THE NATION, ETC. (JC)

JOURNAL CITATION: APPALACHIA; 9; 2; 2-13

ACCESSION NUMBER: EJ129973

CLEARINGHOUSE ACCESSION NUMBER: RC501014

PUBLICATION DATE: OCT-NOV 75

TITLE: THE ENERGY SYMPOSIUM

DESCRIPTOR: *ENERGY; *FEDERAL GOVERNMENT; *INDUSTRY; *TECHNOLOGY; *CONSERVATION (ENVIRONMENT); *COSTS; *NEEDS; *SOCIAL FACTORS; *ENERGY CONSERVATION; *MID APPALACHIA WHITE HOUSE CONFERENCE

ISSUE: CIJE1976

ABSTRACT: EIGHT SEPARATE EXCERPTS FROM THE RESPONSES GIVEN TO AUDIENCE QUESTIONS AT THE MID-APPALACHIA WHITE HOUSE CONFERENCE INCLUDE REMARKS BY WHITE HOUSE REPRESENTATIVES ON U.S. ENERGY NEEDS, PRODUCTION, CONSERVATION, ETC. AND THE RELATIONSHIP BETWEEN INDUSTRY AND THE FEDERAL GOVERNMENT IN TERMS OF SOCIAL COSTS, TECHNOLOGICAL DEVELOPMENT, ETC. (JC)

JOURNAL CITATION: APPALACHIA; 9; 2; 14-23

ACCESSION NUMBER: EJ129974

CLEARINGHOUSE ACCESSION NUMBER: RC501015

PUBLICATION DATE: OCT-NOV 75

TITLE: COAL AND THE FUTURE OF THE APPALACHIAN ECONOMY

PERSONAL AUTHOR: MIERNYK, WILLIAM M.

DESCRIPTOR: *EXPECTANCY TABLES; *ENERGY; *ECONOMIC DEVELOPMENT; *EMPLOYMENT; *FUTURES (OF SOCIETY); *INCOME; *PREDICTION; *APPALACHIA; COAL

ISSUE: CIJE1976

JOURNAL CITATION: APPALACHIA; 9; 2; 29-35

ACCESSION NUMBER: EJ130004

CLEARINGHOUSE ACCESSION NUMBER: SE514036

PUBLICATION DATE: OCT 75

TITLE: THE SUN IN A DRAWER

PERSONAL AUTHOR: ANDERSON, BRUCE

DESCRIPTOR: *BUILDING DESIGN; *ENERGY; *ENVIRONMENTAL INFLUENCES; *SOLAR RADIATION; *THERMAL ENVIRONMENT; *CLIMATE CONTROL; *CONTROLLED ENVIRONMENT; *HEAT; *HEATING; *SOLAR ENERGY

ISSUE: CIJE1976

ABSTRACT: WIDESPREAD USE OF SOLAR ENERGY IS UNSUCCESSFUL

WITH LARGE SCALE INTEGRATION REQUIRED AND CONSERVATION OF RESPONSIBLE INSTITUTIONS. RISING FUEL COSTS AND GOVERNMENT PROMOTION MAY INITIATE EXPANSION IN COMMERCIAL, ENVIRONMENTAL, AND GOVERNMENT ESTABLISHMENTS, HOMES, AND SCHOOLS. DIFFICULTIES ENCOUNTERED INCLUDE FINANCING, TAX INCENTIVES, DESIGN, MANUFACTURING, AND CONSTRUCTION. FEDERAL AGENCIES ARE FUNDING RESEARCH. (IIP)

JOURNAL CITATION: ENVIRONMENT; 17; 7; 36-41

ACCESSION NUMBER: EJ130014

CLEARINGHOUSE ACCESSION NUMBER: SE515047

PUBLICATION DATE: OCT 75

TITLE: WIND POWER NOW

PERSONAL AUTHOR: INGLIS, DAVID RITTENHOUSE

DESCRIPTOR: *ENERGY; *SOLAR RADIATION; *NATURAL RESOURCES; *THERMAL ENVIRONMENT; *ENVIRONMENTAL INFLUENCES; *RESEARCH; *WIND POWER

ISSUE: CIJE1976

ABSTRACT: THE GOVERNMENT PROMOTES AND HEAVILY SUBSIDIZES RESEARCH IN NUCLEAR POWER PLANTS. FEDERAL DEVELOPMENT OF WIND POWER IS SLOW IN COMPARISON EVEN THOUGH MUCH RESEARCH WITH LARGE WIND-ELECTRIC MACHINES HAS ALREADY BEEN CONDUCTED. UNLESS WIND POWER PROGRAMS ARE ACCELERATED IT WILL NOT BECOME A MAJOR ENERGY ALTERNATIVE TO NUCLEAR POWER. (MR)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 31; 8; 20-26

ACCESSION NUMBER: EJ130015

CLEARINGHOUSE ACCESSION NUMBER: SE515048

PUBLICATION DATE: OCT 75

TITLE: A MORATORIUM IN NAME ONLY

PERSONAL AUTHOR: DALEUS, LENHART

DESCRIPTOR: *ENERGY; *POLITICAL ISSUES; *ENVIRONMENT; *POLICY FORMATION; *POLITICS; *SWEDEN; *NUCLEAR POWER

ISSUE: CIJE1976

ABSTRACT: A NATIONWIDE DEBATE OCCURRED IN SWEDEN CONCERNING THEIR NUCLEAR POWER PROGRAM. THE DEBATE CENTERED ON SAFETY, WASTE MANAGEMENT, AND USE OF WEAPONS-GRADE MATERIAL. PARLIAMENT VOTED FOR NUCLEAR POWER DESPITE NEGATIVE PUBLIC OPINION. (MR)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 31; 8; 27-33

ACCESSION NUMBER: EJ130018

CLEARINGHOUSE ACCESSION NUMBER: SE515073

PUBLICATION DATE: NOV 75

TITLE: SOLAR TECHNOLOGIES

PERSONAL AUTHOR: VON HIPPEL, FRANK; WILLIAMS, ROBERT M.

DESCRIPTOR: *ENERGY; *SOLAR RADIATION; *THERMODYNAMICS; *ENVIRONMENTAL INFLUENCES; *NATURAL RESOURCES; *CLIMATIC FACTORS; *TECHNOLOGY

ISSUE: CIJE1976

ABSTRACT: AS FOSSIL FUELS DECREASE IN AVAILABILITY AND ENVIRONMENTAL CONCERNS INCREASE, SOLAR ENERGY IS BECOMING A POTENTIAL MAJOR ENERGY SOURCE. ALREADY SOLAR ENERGY IS USED FOR SPACE HEATING IN HOMES. PROPOSALS FOR SOLAR-ELECTRIC GENERATING SYSTEMS INCLUDE LAND-BASED OR OCEAN-BASED COLLECTORS AND HARNESSING WIND AND WAVE POWER. PHOTOSYNTHESIS CAN ALSO SUPPLY ENERGY NEEDS. (MR)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 31; 9; 25-31

ACCESSION NUMBER: EJ130098

CLEARINGHOUSE ACCESSION NUMBER: SE515258

PUBLICATION DATE: NOV 75

TITLE: PANEL CALLS BENEFICIATION-FGD COMBINATION *MOST ECONOMICAL, BEST ALL-AROUND CHOICE*

DESCRIPTOR: *AIR POLLUTION CONTROL; *COST EFFECTIVENESS; *ELECTRICITY; *STANDARDS; *UTILITIES; *ENERGY; *ENVIRONMENTAL INFLUENCES; *FUELS; *TECHNOLOGY; *WASTE DISPOSAL; *SULFUR DIOXIDE

ISSUE: CIJE1976

JOURNAL CITATION: JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION; 25; 11; 1115-1118

ACCESSION NUMBER: EJ130135

CLEARINGHOUSE ACCESSION NUMBER: SE515347

PUBLICATION DATE: DEC 75

TITLE: NUCLEAR ENERGY: A SECOND ROUND OF QUESTIONS

PERSONAL AUTHOR: DAY, M. C.

DESCRIPTOR: *ENERGY; *FEDERAL PROGRAMS; *FUELS; *NUCLEAR

PHYSICS; *PROGRAM COSTS; ELECTRICITY; ENVIRONMENTAL
RESEARCH; UTILITIES; NUCLEAR POWER

ISSUE: CIJE1976

ABSTRACT: DATA AND ARGUMENTS ARE PRESENTED TO SUPPORT THE
CONTENTION THAT THERE MAY NOT BE SUFFICIENT FUEL TO RUN THE
PROPOSED AMERICAN LIGHT WATER REACTOR PROGRAM. SUCCESS OF
THE PROGRAM MAY ALSO DEPEND ON IMPROVED TECHNOLOGY OF THE
BREEDER REACTOR. A MORATORIUM IN THE LIGHT WATER REACTOR
PROGRAM IS RECOMMENDED. (BT)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 31;
101 52-59

ACCESSION NUMBER: EJ130169

CLEARINGHOUSE ACCESSION NUMBER: SE515381

PUBLICATION DATE: DEC 75

TITLE: ENERGY: PLAN TO USE PEAT AS FUEL STIRS CONCERN IN
MINNESOTA

PERSONAL AUTHOR: BOFFEY, PHILIP M.

DESCRIPTOR: *ENERGY; *ENVIRONMENT; *FUELS; *NATURAL
RESOURCES; ENVIRONMENTAL EDUCATION; FUEL CONSUMPTION;
SCIENCE EDUCATION; *PEAT; MINNESOTA

ISSUE: CIJE1976

JOURNAL CITATION: SCIENCE; 190; 4219; 1060-1070

ACCESSION NUMBER: EJ130210

CLEARINGHOUSE ACCESSION NUMBER: SE515456

PUBLICATION DATE: DEC 75

TITLE: ENERGY AND THE ENVIRONMENT

PERSONAL AUTHOR: CRAWLEY, G. M.; HAYNES, S. K.

DESCRIPTOR: *COURSE DESCRIPTIONS; *COLLEGE SCIENCE;
ENVIRONMENTAL EDUCATION; *ENERGY; *ENVIRONMENT; CURRICULUM
DEVELOPMENT; ENRICHMENT ACTIVITIES; HIGHER EDUCATION;
SCIENCE EDUCATION; UNDERGRADUATE STUDY

ISSUE: CIJE1976

ABSTRACT: PROVIDES THE DESCRIPTION AND EVALUATION OF A
COLLEGE-LEVEL UNDERGRADUATE COURSE DEALING WITH ENERGY AND
THE ENVIRONMENT. THE INTENT OF THE COURSE IS TO SURVEY THE
SOCIAL, POLITICAL, ECONOMIC, AND MORAL CONSIDERATIONS OF THE
TOPIC. THE USE OF GUEST SPEAKERS IS STRONGLY ADVOCATED.
(AUTHOR/CP)

JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS; 43; 12;
1036-1040

ACCESSION NUMBER: EJ130247

CLEARINGHOUSE ACCESSION NUMBER: SE515565

PUBLICATION DATE: JAN 76

TITLE: APPARATUS FOR TEACHING PHYSICS

PERSONAL AUTHOR: GOTTLIEB, HERBERT M., ED.

DESCRIPTOR: *INSTRUCTIONAL AIDS; *LABORATORY EQUIPMENT;
*PHYSICS; *SCIENCE EQUIPMENT; *SCIENCE MATERIALS; ENERGY;
PHOTOGRAPHY; RADIATION; SCIENCE EDUCATION; THERMODYNAMICS

ISSUE: CIJE1976

JOURNAL CITATION: PHYSICS TEACHER; 14; 11; 59-62

ACCESSION NUMBER: EJ130265

CLEARINGHOUSE ACCESSION NUMBER: SE515636

PUBLICATION DATE: JAN 76

TITLE: THE GREAT NUCLEAR POWER DEBATE (1)--A SUMMARY

PERSONAL AUTHOR: DOUGLAS, JOHN W.

DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; *RADIATION; *SAFETY;
UTILITIES; ENVIRONMENTAL EDUCATION; HEALTH; NATURAL
RESOURCES; SCIENCE EDUCATION

ISSUE: CIJE1976

ABSTRACT: FIVE ISSUES CONCERNING NUCLEAR POWER--ECONOMICS,
DANGER FROM ACCIDENTS, ENVIRONMENTAL EFFECTS, TERRORISM, AND
ALTERNATIVES ARE DEBATED, WITH ONE PARAGRAPH STATEMENTS FROM
OPONENTS AND ADVOCATES ON EACH OF THE TOPICS. (CP)

JOURNAL CITATION: SCIENCE NEWS; 109; 3; 44-45

ACCESSION NUMBER: EJ131428

CLEARINGHOUSE ACCESSION NUMBER: SE514103

PUBLICATION DATE: 75

TITLE: THE N.E.O. AND DECISION MAKING IN CANADA

PERSONAL AUTHOR: PAGE, ROBERT

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *ENERGY; *ECONOMICS;
*FUELS; *GOVERNING BOARDS; CONSUMER ECONOMICS; ECOLOGY;
NATURAL RESOURCES; *CANADA

ISSUE: CIJE1976

ABSTRACT: THIS ARTICLE IS CONCERNED WITH THE FAILURE OF THE
NATIONAL ENERGY BOARD TO REEVALUATE ITS PHILOSOPHY IN LIGHT
OF NEW ECONOMIC DEVELOPMENT ATTITUDES RESULTING FROM THE
CONSERVATION, CONSUMER, AND ECOLOGY MOVEMENTS. RECENT
DEMANDS FROM CONSUMER GROUPS INCLUDE THE NEED FOR MORE
INFORMATION ON THE ECONOMIC MANAGEMENT WITHIN THE ENERGY
FIELD. (AUTHOR/MA)

JOURNAL CITATION: ALTERNATIVES; 4; 3; 4-6

ACCESSION NUMBER: EJ131429

CLEARINGHOUSE ACCESSION NUMBER: SE514104

PUBLICATION DATE: 75

TITLE: THE SKAGIT VALLEY CONTROVERSY: A CASE HISTORY IN
ENVIRONMENTAL POLITICS

PERSONAL AUTHOR: PERRY, THOMAS I., JR.

DESCRIPTOR: *CITIZEN PARTICIPATION; *ENVIRONMENTAL
EDUCATION; *ECOLOGY; *ENERGY; *NATURAL RESOURCES;
CONSERVATION (ENVIRONMENT); GOVERNMENT ROLE; LAND USE;
PHYSICAL ENVIRONMENT; WATER RESOURCES; *CANADA

ISSUE: CIJE1976

ABSTRACT: CITIZENS OF THE SKAGIT VALLEY BECAME CONCERNED
WHEN THAT AREA WAS TO BE FLOODED TO PRODUCE ENERGY FOR THE
UNITED STATES. THROUGH POLITICAL CITIZEN ACTION, THEY SAVED
THIS AREA FROM ECOLOGICAL DESTRUCTION AND SET A PRECEDENT
FOR FURTHER ENVIRONMENTAL POLICY DECISIONS. THE IMPORTANCE
OF ENVIRONMENTAL IMPACT ASSESSMENT BECAME EVIDENT. (MA)

JOURNAL CITATION: ALTERNATIVES; 4; 3; 7-17,33

ACCESSION NUMBER: EJ131551

CLEARINGHOUSE ACCESSION NUMBER: SE515610

PUBLICATION DATE: JAN 76

TITLE: SOLAR HEATING AND COOLING

PERSONAL AUTHOR: DUFFIE, JOHN A.; BECKMAN, WILLIAM A.

DESCRIPTOR: *ENERGY; *SCIENTIFIC RESEARCH; *SOLAR
RADIATION; *TECHNOLOGY; ECONOMIC FACTORS; FUELS; HEATING;
SCIENCE MATERIALS; THERMAL ENVIRONMENT

ISSUE: CIJE1976

ABSTRACT: DESCRIBES RECENT RESEARCH THAT HAS MADE SOLAR
ENERGY ECONOMICALLY COMPETITIVE WITH OTHER ENERGY SOURCES.
INCLUDES SOLAR ENERGY BUILDING ARCHITECTURE, STORAGE
SYSTEMS, AND ECONOMIC PRODUCTION DATA. (MLH)

JOURNAL CITATION: SCIENCE; 191; 4223; 143-149

ACCESSION NUMBER: EJ131564

CLEARINGHOUSE ACCESSION NUMBER: SE515675

PUBLICATION DATE: JAN 76

TITLE: STATE OF THE ENVIRONMENT AND ITS IMPLICATIONS TO
RESOURCE POLICY DEVELOPMENT

PERSONAL AUTHOR: BISWAS, ASIT K.; BISWAS, MARGARET R.

DESCRIPTOR: *ECOLOGY; *ENERGY CONSERVATION; *ENVIRONMENTAL
RESEARCH; *FOOD; *POPULATION GROWTH; ENVIRONMENTAL
EDUCATION; ENVIRONMENTAL INFLUENCES; POLLUTION; SCIENCE
EDUCATION; SOCIOECONOMIC INFLUENCES

ISSUE: CIJE1976

ABSTRACT: EMPHASIZES THAT INTEGRATED ENVIRONMENTAL
MANAGEMENT AND COOPERATION IS NEEDED FOR MANAGING THE
INTERACTING RELATIONSHIPS BETWEEN RESOURCES, TECHNOLOGY AND
THE MINIMAL NEEDS FOR SUSTAINING DECENT STANDARDS OF HUMAN
LIFE AND PROTECTING THE ENVIRONMENT ON WHICH THAT LIFE
DEPENDS. (LS)

JOURNAL CITATION: BIOSCIENCE; 26; 1; 19-25

ACCESSION NUMBER: EJ131608

CLEARINGHOUSE ACCESSION NUMBER: S0504346

PUBLICATION DATE: FEB 76

TITLE: DANGERS OF NUCLEAR POWER

PERSONAL AUTHOR: GRAVEL, MIKE

DESCRIPTOR: *FUELS; *NUCLEAR PHYSICS; *WORLD PROBLEMS;
*ENERGY; ENERGY CONSERVATION; SOCIAL PROBLEMS; *NUCLEAR
POWER

ISSUE: CIJE1976

ABSTRACT: SENATOR MIKE GRAVEL OF ALASKA EXAMINES THE
DANGERS OF NUCLEAR POWER, RADIOACTIVE WASTES, REACTOR
SAFETY, PLUTONIUM, AND ENERGY PRIORITIES. (JR)

JOURNAL CITATION: SOCIAL EDUCATION; 40; 2; 102-3

ACCESSION NUMBER: EJ131679

CLEARINGHOUSE ACCESSION NUMBER: SP504191

PUBLICATION DATE: JAN/FEB 75

TITLE: A TEACHER'S GUIDE TO THE ENERGY CRISIS

PERSONAL AUTHOR: SARTWELL, JOYCE G.; ABELL, RICHARD P.

DESCRIPTOR: *ENERGY CONSERVATION; *ENERGY; *CONSERVATION
EDUCATION; *ECOLOGY; *ENVIRONMENTAL EDUCATION; ECOLOGICAL
FACTORS; NATURAL RESOURCES

ISSUE: CIJE1976

ABSTRACT: THIS ARTICLE DEFINES SOME TROUBLESOME FACTS ABOUT
THE USE OF ENERGY, ORGANIZES THE MAJOR ISSUES, REVIEWS SOME
ALTERNATIVE SOURCES OF ENERGY, PROVIDES IDEAS FOR CLASSROOM
USE, AND LISTS REFERENCES AND MATERIALS ON THE SUBJECT. (RC)

JOURNAL CITATION: TODAY'S EDUCATION; 64: 1: 90-7

ACCESSION NUMBER: EJ132451

CLEARINGHOUSE ACCESSION NUMBER: EA506762

PUBLICATION DATE: SUM 75

TITLE: THE IMPACT OF THE ENERGY CRISIS ON SCHOOL FINANCE

PERSONAL AUTHOR: ANDERSON, CALVIN E.

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *GUIDELINES;
*EDUCATIONAL FINANCE; *EDUCATIONAL FACILITIES; BUILDING
OPERATIONS; BUILDING DESIGN; ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: DISCUSSES THE FINANCIAL PROBLEMS THAT FACE SCHOOL
DISTRICTS AS A RESULT OF RAPIDLY INCREASING ENERGY COSTS AND
SUGGESTS A NUMBER OF STEPS SCHOOLS CAN TAKE TO ELIMINATE
WASTE AND GREATLY REDUCE THEIR LEVEL OF ENERGY CONSUMPTION.
(JG)

JOURNAL CITATION: JOURNAL OF EDUCATION FINANCE; 1: 1: 77-85

ACCESSION NUMBER: EJ132511

CLEARINGHOUSE ACCESSION NUMBER: EA506862

PUBLICATION DATE: FEB 76

TITLE: ENERGY SAVINGS AT HARVARD--82.5 MILLION

DESCRIPTOR: *COST EFFECTIVENESS; *ENERGY CONSERVATION;
*PREVENTION; *COMPUTER SCIENCES; *SCHOOL MAINTENANCE;
HEATING; HIGHER EDUCATION; HARVARD UNIVERSITY

ISSUE: CIJE1976

ABSTRACT: COMPUTERS THAT CHECK THE ACTUAL ENERGY USAGE OF
EACH BUILDING ARE PART OF A PREVENTION PROGRAM THAT HAS
REDUCED ENERGY CONSUMPTION AT HARVARD UNIVERSITY. (MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 48: 6:
52-55

ACCESSION NUMBER: EJ132540

CLEARINGHOUSE ACCESSION NUMBER: EA506904

PUBLICATION DATE: FEB 76

TITLE: NEW LIGHTING SYSTEMS PROVIDE FLEXIBILITY

DESCRIPTOR: *LIGHTING; *FLEXIBLE LIGHTING DESIGN; *ENERGY
CONSERVATION; *ILLUMINATION LEVELS; *SCHOOL DESIGN;
ELEMENTARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: TWO SCHOOLS ARE FEATURED THAT HAVE LIGHTING
SYSTEMS THAT GIVE FLEXIBLE ILLUMINATION AND CONSERVE ENERGY
AS WELL. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS; 12-13

ACCESSION NUMBER: EJ132542

CLEARINGHOUSE ACCESSION NUMBER: EA506916

PUBLICATION DATE: FEB 76

TITLE: SUNNY SIDE UP

PERSONAL AUTHOR: MURPHY, JIM

DESCRIPTOR: *BUILDING DESIGN; *SCIENCE FACILITIES; *SOLAR
RADIATION; *ARCHITECTURAL CHARACTER; *ENERGY CONSERVATION;
PRIVATE SCHOOLS; SECONDARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: ENERGY CONSERVATION HIGH ON THE CLIENT'S PRIORITY
LIST LED TO A SOLAR COLLECTOR ROOF FOR THE NEW SCIENCE
BUILDING AT THE WOODBRIDGE SCHOOL, LOCATED IN THE VIRGINIA
SUBURBS OF WASHINGTON, D.C. (AUTHOR/MLF)

JOURNAL CITATION: PROGRESSIVE ARCHITECTURE; 57: 2: 94-96

ACCESSION NUMBER: EJ133244

CLEARINGHOUSE ACCESSION NUMBER: SE515599

PUBLICATION DATE: JAN 76

TITLE: THE COMING AGE OF SHORTAGES

PERSONAL AUTHOR: BENOIT, EMILE

DESCRIPTOR: *ESSAYS; *FUTURES (OF SOCIETY); *LIFE STYLE;
*NATURAL RESOURCES; *WORLD PROBLEMS; *ECONOMICS; ENERGY;
ENVIRONMENTAL INFLUENCES; FOOD; NUCLEAR PHYSICS

ISSUE: CIJE1976

ABSTRACT: A COLUMBIA UNIVERSITY ECONOMIST TAKES A LOOK AT

BICENTENNIAL AMERICA AND ASKS: CAN THE UNITED STATES SURVIVE
ANOTHER 200 YEARS? HE FINDS THAT THE COUNTRY MUST COME TO
GRIPS WITH THE FACT THAT THE "AGE OF PLENTY" IS ABOUT OVER.
(AUTHOR/BT)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 32: 1:
6-16

ACCESSION NUMBER: EJ133245

CLEARINGHOUSE ACCESSION NUMBER: SE515600

PUBLICATION DATE: JAN 76

TITLE: SOLAR SEA POWER

PERSONAL AUTHOR: ZENER, CLARENCE

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL RESEARCH; *OCEANOLOGY;
*SOLAR RADIATION; COST EFFECTIVENESS; ELECTRICITY; RESEARCH;
THERMAL ENVIRONMENT; UTILITIES; *OCEAN THERMAL ENERGY
CONVERSION; OTEC

ISSUE: CIJE1976

ABSTRACT: IN THEIR PREOCCUPATION WITH HIGHLY COMPLEX NEW
ENERGY SYSTEMS, SCIENTISTS AND STATESMEN MAY BE OVERLOOKING
THE POSSIBILITIES OF OCEAN THERMAL ENERGY CONVERSION (OTEC).
THAT IS THE VIEW OF A CARNEGIE-MELLON UNIVERSITY PHYSICIST
WHO IS IN THE FOREFRONT OF SOLAR SEA POWER INVESTIGATION.
(AUTHOR/BT)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 32: 1:
17-24

ACCESSION NUMBER: EJ133248

CLEARINGHOUSE ACCESSION NUMBER: SE515603

PUBLICATION DATE: JAN 76

TITLE: NUCLEAR ENERGY - A FATEFUL CHOICE FOR FRANCE

PERSONAL AUTHOR: BAUER, ETIENNE; AND OTHERS

DESCRIPTOR: *DECISION MAKING; *ELECTRICITY; *ENERGY;
*ENVIRONMENTAL INFLUENCES; *NUCLEAR PHYSICS; ENVIRONMENT;
UTILITIES; *FRANCE

ISSUE: CIJE1976

ABSTRACT: IN FRANCE THE PUBLIC IS ONLY MODERATELY
INTERESTED IN TECHNOLOGICAL PROBLEMS, AND SO THE QUESTION OF
ENERGY CHOICES HAS NOT SEEPED DEEPLY INTO THE POLITICAL
CONSCIOUSNESS. THE SITUATION COULD CHANGE AS THE COUNTRY
STRENGTHENS ITS NUCLEAR COMMITMENT. (BT)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 32: 1:
37-41

ACCESSION NUMBER: EJ133268

CLEARINGHOUSE ACCESSION NUMBER: SE515648

PUBLICATION DATE: DEC 75

TITLE: THE COLLECTION OF SOLAR ENERGY

PERSONAL AUTHOR: PEARSON, M. H.

DESCRIPTOR: *ENERGY; *INSTRUCTIONAL AIDS; *SCIENCE
ACTIVITIES; *SECONDARY SCHOOL SCIENCES; *SOLAR RADIATION;
ENVIRONMENT; INSTRUCTION; LABORATORY EQUIPMENT; SCIENCE
EDUCATION; SECONDARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: DESCRIBES THE APPARATUS AND APPLICATIONS OF A
SOLAR ENERGY STUDY KIT SUITABLE FOR SCHOOL AND COLLEGE USE.
(LS)

JOURNAL CITATION: SCHOOL SCIENCE REVIEW; 57: 199: 289-292

ACCESSION NUMBER: EJ133364

CLEARINGHOUSE ACCESSION NUMBER: SE515761

PUBLICATION DATE: JAN 76

TITLE: SOMETHING NEW UNDER THE SUN

PERSONAL AUTHOR: MOORE, JOHN W., ED.; MOORE, ELIZABETH A.,
ED.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION;
*INSTRUCTIONAL MATERIALS; *SECONDARY SCHOOL SCIENCES; *SOLAR
RADIATION; LABORATORY EXPERIMENTS; SCIENCE ACTIVITIES;
SCIENCE EDUCATION; SECONDARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: DESCRIBES FIVE WAYS FOR HARNESSING SOLAR ENERGY
AND LISTS REFERENCES CONTAINING SUGGESTIONS FOR CLASSROOM
EXPERIMENTATION. (LS)

JOURNAL CITATION: SCIENCE TEACHER; 43: 1: 34-35

ACCESSION NUMBER: EJ133389

CLEARINGHOUSE ACCESSION NUMBER: SE515786

PUBLICATION DATE: FEB 76

TITLE: A RELEVANT CALCULUS PROBLEM: ESTIMATION OF U.S. OIL
RESERVES

PERSONAL AUTHOR: WEYLAND, JACK A.; BALLEW, DAVID W.

DESCRIPTOR: *CALCULUS; *COLLEGE MATHEMATICS; *INSTRUCTION;
*MATHEMATICAL APPLICATIONS; *MATHEMATICS EDUCATION; *ENERGY;
HIGHER EDUCATION; NATURAL RESOURCES; PROBLEM SOLVING

ISSUE: CIJE1976

ABSTRACT: APPLICATION OF THE INTEGRAL CALCULUS TO
PREDICTING SUPPLIES OF OIL IN FUTURE YEARS IS DESCRIBED.
(SO)

JOURNAL CITATION: MATHEMATICS TEACHER 69: 21 125-128

ACCESSION NUMBER: EJ133552

CLEARINGHOUSE ACCESSION NUMBER: SE516031

PUBLICATION DATE: JAN/FEB 76

TITLE: MATTS DOWN IS WHAT'S UP

PERSONAL AUTHOR: DE VITO, ALFRED

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ENERGY;
*ELECTRICAL APPLIANCES; *INSTRUCTIONAL MATERIALS; *SCIENCE
ACTIVITIES; *ELECTRICITY; ELEMENTARY SECONDARY EDUCATION;
FUELS; SCIENCE EDUCATION; UTILITIES

ISSUE: CIJE1976

ABSTRACT: PROVIDES A TABLE SHOWING AVERAGE POWER
CONSUMPTION RATES FOR MANY HOME APPLIANCES. WITH THIS, A
VARIETY OF STUDENT ACTIVITIES DEALING WITH ENERGY
CONSUMPTION ARE SUGGESTED. (ICP)

JOURNAL CITATION: SCIENCE ACTIVITIES 13: 11 14-15

ACCESSION NUMBER: EJ134058

CLEARINGHOUSE ACCESSION NUMBER: CE504568

PUBLICATION DATE: JAN 76

TITLE: WATER USE: A SURVEY

PERSONAL AUTHOR: FLEMING, ROSE GLEE; WARDEN, JESSIE

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *WATER RESOURCES;
*COLLEGE STUDENTS; *SCHOOL SURVEYS; *STUDENT ROLE; ENERGY
CONSERVATION; CONSERVATION EDUCATION; FLORIDA STATE
UNIVERSITY

ISSUE: CIJE1976

ABSTRACT: A SURVEY OF FLORIDA STATE UNIVERSITY STUDENTS
SHOWED THAT THEIR CURRENT LAUNDRY PRACTICES GENERATE ENERGY
AND WATER OVER-CONSUMPTION. THE SURVEY ALSO RESULTED IN SOME
CONCRETE SUGGESTIONS TO THE STUDENTS THAT WOULD IMPROVE
THEIR CONSERVATION PRACTICES. (AUTHOR/DP)

JOURNAL CITATION: JOURNAL OF HOME ECONOMICS 68: 11 19-21

ACCESSION NUMBER: EJ134430

CLEARINGHOUSE ACCESSION NUMBER: EA506895

PUBLICATION DATE: FEB 76

TITLE: HOW SCHOOLS ARE SAVING ENERGY. ENERGY CHECKLIST

DESCRIPTOR: *ENERGY CONSERVATION; *BUILDING OPERATION;
*SCHOOL ADMINISTRATION; *GUIDELINES; *CHECK LISTS; FUEL
CONSUMPTION; CLIMATE CONTROL

ISSUE: CIJE1976

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS 42: 21 35-36

ACCESSION NUMBER: EJ134431

CLEARINGHOUSE ACCESSION NUMBER: EA506896

PUBLICATION DATE: FEB 76

TITLE: CV 100--STILL GOING STRONG

PERSONAL AUTHOR: ABRAHAMS, A. L.

DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION;
*FUELS; *HEATING; *ESTIMATED COSTS; CLIMATE CONTROL;
ELEMENTARY SECONDARY EDUCATION; CV 100; CANADA (ONTARIO)

ISSUE: CIJE1976

ABSTRACT: DESCRIBES RESULTS OF A STUDY THAT USED CV 100, A
FUEL ADDITIVE FOR USE IN OIL-FIRED HEATING SYSTEMS, ON A
TRIAL BASIS IN 12 ONTARIO SCHOOLS. THE TEST SHOWED AN
AVERAGE 12 PERCENT REDUCTION IN FUEL COSTS IN THE SCHOOLS
USING CV 100. (JG)

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS 42: 21 37

ACCESSION NUMBER: EJ134432

CLEARINGHOUSE ACCESSION NUMBER: EA506897

PUBLICATION DATE: FEB 76

TITLE: MEASURE AND IDENTIFY YOUR ENERGY--AND SAVE DOLLARS

PERSONAL AUTHOR: RUDDY, WILLIAM

DESCRIPTOR: *THERMAL ENVIRONMENT; *CLIMATE CONTROL; *FUEL
CONSUMPTION; *ARCHITECTURAL RESEARCH; *SYSTEMS ANALYSIS;
HEATING; ENERGY CONSERVATION; FACILITY CASE STUDIES;
ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1976

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS 42: 21
38-39,43-44

ACCESSION NUMBER: EJ134485

CLEARINGHOUSE ACCESSION NUMBER: FA506981

PUBLICATION DATE: MAR 76

TITLE: WALL SYSTEM SAVES INITIAL HVAC COSTS

DESCRIPTOR: *ELECTRICITY; *SYSTEMS; *APPROACH; *COST
EFFECTIVENESS; *ENERGY CONSERVATION; *CLIMATE CONTROL;
ELEMENTARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: THE SUPERIOR INSULATING CHARACTERISTICS OF AN
EXTERIOR WALL SYSTEM HAS ENABLED A MASSACHUSETTS SCHOOL
DISTRICT TO REALIZE A SAVINGS ON ELECTRIC HEATING,
VENTILATING, AND AIR-CONDITIONING SYSTEMS. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS 13

ACCESSION NUMBER: EJ134486

CLEARINGHOUSE ACCESSION NUMBER: EA506982

PUBLICATION DATE: MAR 76

TITLE: CONCRETE AND CONCERN LEAD TO ENERGY SAVINGS

DESCRIPTOR: *ENERGY CONSERVATION; *PRESTRESSED CONCRETE;
*BUILDING MATERIALS; *SCHOOL DESIGN; *ARCHITECTURAL
ELEMENTS; ELEMENTARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: THE CHRISTOPHER COLUMBUS ELEMENTARY SCHOOL IN NEW
HAVEN, CONNECTICUT, USES HEAVY CONCRETE CONSTRUCTION TO
CONSERVE ENERGY. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY 48: 71 20

ACCESSION NUMBER: EJ134492

CLEARINGHOUSE ACCESSION NUMBER: EA506988

PUBLICATION DATE: MAR 76

TITLE: SOLAR HEAT MAKES COLLEGE POSSIBLE

PERSONAL AUTHOR: STEPHAN, ED

DESCRIPTOR: *SOLAR RADIATION; *ENERGY CONSERVATION;
*HEATING; *SCHOOL DESIGN; *ARCHITECTURAL ELEMENTS; COST
EFFECTIVENESS; FUEL CONSUMPTION

ISSUE: CIJE1976

ABSTRACT: A NUMBER OF CONVENTIONAL PRODUCTS ARE USED IN
IMAGINATIVE WAYS TO PROVIDE SOLAR HEATING AT DENVER
COMMUNITY COLLEGE'S NORTH CAMPUS. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY 48: 71
53-57

ACCESSION NUMBER: EJ134764

CLEARINGHOUSE ACCESSION NUMBER: IR503015

PUBLICATION DATE: JAN-FEB 76

TITLE: DEVELOPMENT OF AN INTEGRATED ENERGY VOCABULARY AND
THE POSSIBILITIES FOR ON-LINE SUBJECT SWITCHING

PERSONAL AUTHOR: NIEHOFF, R. T.

DESCRIPTOR: *ENERGY; *SUBJECT INDEX TERMS; *ON LINE
SYSTEMS; DATA BASES; INFORMATION RETRIEVAL; THESAURI

ISSUE: CIJE1976

ABSTRACT: EXPLORES THE POTENTIAL FOR A FULLY DEVELOPED
ENERGY VOCABULARY CONVERSION GUIDE, REPORTS ON THE ANALYSIS
AND INTEGRATION OF 11 EXISTING VOCABULARIES. (AUTHOR/PFF)

JOURNAL CITATION: JOURNAL OF THE AMERICAN SOCIETY FOR
INFORMATION SCIENCE 27: 11 3-17

ACCESSION NUMBER: EJ135037

CLEARINGHOUSE ACCESSION NUMBER: SE516074

PUBLICATION DATE: MAR 76

TITLE: FACING THE ENERGY CRISIS IN A MATHEMATICS CLASSROOM

PERSONAL AUTHOR: YANT, SANDRA L.

DESCRIPTOR: *LEARNING ACTIVITIES; *MATHEMATICAL
APPLICATIONS; *SECONDARY SCHOOL MATHEMATICS; *STATISTICS;
*UNITS OF STUDY (SUBJECT FIELDS); ENERGY CONSERVATION;
INSTRUCTION; MATHEMATICS EDUCATION; SECONDARY EDUCATION

ISSUE: CIJE1976

ABSTRACT: SEVENTH AND EIGHTH GRADE CLASSES INVESTIGATED THE
USES OF ENERGY IN THEIR SCHOOL AND PRESENTED A REPORT TO THE
SCHOOL BOARD INDICATING CURRENT USE AND COSTS, PROJECTED
FUTURE COSTS, AND RECOMMENDATIONS. (SO)

JOURNAL CITATION: ARITHMETIC TEACHER 23: 3: 223-224

ACCESSION NUMBER: EJ135072
 CLEARINGHOUSE ACCESSION NUMBER: SE516134
 PUBLICATION DATE: MAR 76
 TITLE: ENERGY, EDUCATION AND THE "WOLF" CRIERS
 PERSONAL AUTHOR: FOWLER, JOHN M.
 DESCRIPTOR: *ENERGY; *FUELS; *FEDERAL PROGRAMS; *NATURAL RESOURCES; *PREDICTION; *ENERGY CONSERVATION; *INSTRUCTIONAL MATERIALS; *SCIENCE EDUCATION; *UTILITIES
 ISSUE: CIJE1976
 ABSTRACT: SURVEYS THE ENERGY SITUATION IN TERMS OF CURRENT DEMANDS AND RESOURCES. EXPLAINS PROPOSALS CONTAINED IN THE FEDERAL ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION (FERDA) PLAN FOR UTILIZATION OF FUTURE SOURCES OF ENERGY. THE ROLE OF SCIENCE TEACHERS CONCERNING ENERGY EDUCATION IS DISCUSSED WITH SUGGESTIONS FOR POSSIBLE TOPICS AND INSTRUCTIONAL MATERIALS. (CP)
 JOURNAL CITATION: SCIENCE TEACHER; 45; 3; 29-32

ACCESSION NUMBER: EJ135134
 CLEARINGHOUSE ACCESSION NUMBER: SE516269
 PUBLICATION DATE: MAR 76
 TITLE: ERDA AND NSF GAIN IN FISCAL 1977 BUDGET REQUEST
 DESCRIPTOR: *BUDGETS; *SCIENTIFIC RESEARCH; *FINANCIAL SUPPORT; *FEDERAL PROGRAMS; *RESEARCH AND DEVELOPMENT CENTERS; *SCIENCE EDUCATION; *SCIENCES; *ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION; ERDA; NATIONAL SCIENCE FOUNDATION; NSF; FISCAL YEAR 1977
 ISSUE: CIJE1976
 ABSTRACT: PROVIDES A BREAKDOWN OF TOPICS OF SUPPORT COVERED IN THE 1977 FISCAL YEAR PROPOSED BUDGETS FOR THE ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION (ERDA) AND THE NATIONAL SCIENCE FOUNDATION (NSF). (CP)
 JOURNAL CITATION: PHYSICS TODAY; 29; 3; 85-86,88

ACCESSION NUMBER: EJ135228
 CLEARINGHOUSE ACCESSION NUMBER: SE504498
 PUBLICATION DATE: APR 76
 TITLE: ENERGY, EDUCATION, AND THE "WOLF" CRIERS
 PERSONAL AUTHOR: FOWLER, JOHN M.
 DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *DEPLETED RESOURCES; *ENVIRONMENTAL EDUCATION; *RESOURCE MATERIALS; *ELEMENTARY SECONDARY EDUCATION
 ISSUE: CIJE1976
 ABSTRACT: THIS ARTICLE EXAMINES THE BACKGROUND TO THE CURRENT ENERGY CRISIS AND OUTLINES SOME POSSIBLE SOLUTIONS TO THE PROBLEM. (OE)
 JOURNAL CITATION: SOCIAL EDUCATION; 40; 4; 245-56

ACCESSION NUMBER: EJ135655
 CLEARINGHOUSE ACCESSION NUMBER: CE504739
 PUBLICATION DATE: APR 76
 TITLE: SAVING ENERGY IN VOCATIONAL SCHOOLS
 PERSONAL AUTHOR: STEIN, RICHARD G.
 DESCRIPTOR: *ENERGY CONSERVATION; *VOCATIONAL SCHOOLS; *SCHOOL MAINTENANCE; *VENTILATION; *LIGHTING
 ISSUE: CIJE1976
 ABSTRACT: WAYS TO CONSERVE ENERGY IN THE VENTILATION, LIGHTING, MAINTENANCE, AND CLEANING OF VOCATIONAL SCHOOLS ARE SUGGESTED. (EC)
 JOURNAL CITATION: SCHOOL SHOP; 35; 8; 51-8

ACCESSION NUMBER: EJ135663
 CLEARINGHOUSE ACCESSION NUMBER: CE504747
 PUBLICATION DATE: APR 76
 TITLE: HEAT RECOVERY SYSTEM SAVES POWER
 PERSONAL AUTHOR: WIAR, DALE M.
 DESCRIPTOR: *ENERGY CONSERVATION; *HEATING; *EQUIPMENT UTILIZATION; *VOCATIONAL SCHOOLS; *SCHOOL SHOPS; *EDUCATIONAL FACILITIES; *MILWAUKEE AREA TECHNICAL COLLEGE (SOUTH CAMPUS)
 ISSUE: CIJE1976
 ABSTRACT: A HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) SYSTEM CONSERVES ENERGY BY GENERATING HEAT FROM LABORATORIES AND SHOP EQUIPMENT. (EC)
 JOURNAL CITATION: SCHOOL SHOP; 35; 8; 76-9

ACCESSION NUMBER: EJ136046
 CLEARINGHOUSE ACCESSION NUMBER: EA507025
 PUBLICATION DATE: APR 76
 TITLE: CONTRACT SERVICE FOR SCHOOL MAINTENANCE
 DESCRIPTOR: *SCHOOL MAINTENANCE; *PREVENTION; *PERFORMANCE CONTRACTS; *EQUIPMENT MAINTENANCE; *MECHANICAL EQUIPMENT; *ENERGY CONSERVATION; *COST EFFECTIVENESS
 ISSUE: CIJE1976
 ABSTRACT: PREVENTIVE MAINTENANCE CAN EXTEND USEFUL EQUIPMENT LIFE IN A SCHOOL BUILDING AND KEEP SYSTEMS RUNNING MORE EFFICIENTLY. POINTS TO CONSIDER BEFORE SELECTING A COMPREHENSIVE ENERGY MANAGEMENT PACKAGE ARE LISTED. (AUTHOR/MLF)
 JOURNAL CITATION: MODERN SCHOOLS; 8-11

ACCESSION NUMBER: EJ136074
 CLEARINGHOUSE ACCESSION NUMBER: EA507063
 PUBLICATION DATE: APR 76
 TITLE: ENERGY COSTS: PROGRAMS ARE GOING UP THE CHIMNEY
 PERSONAL AUTHOR: STEPHAN, EDWARD; AND OTHERS
 DESCRIPTOR: *FUELS; *FUEL CONSUMPTION; *COST INDEXES; *SCHOOL DISTRICT SPENDING; *UTILITIES; *EXPENDITURE PER STUDENT; *HEATING; *ENERGY CONSERVATION
 ISSUE: CIJE1976
 ABSTRACT: THE EFFECT OF RISING FUEL AND UTILITY COSTS IS BEING MEASURED BY THE REDUCTION OF EDUCATIONAL PROGRAMS. (MLF)
 JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 48; 8; 42-48

ACCESSION NUMBER: EJ136075
 CLEARINGHOUSE ACCESSION NUMBER: EA507064
 PUBLICATION DATE: APR 76
 TITLE: ENERGY PROGRAM UPDATES EXISTING SCHOOLS
 DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION; *SYSTEMS APPROACH; *UTILITIES; *COST EFFECTIVENESS; *HEATING; *NEW YORK (NEW HYDE PARK)
 ISSUE: CIJE1976
 ABSTRACT: HERRICKS PUBLIC SCHOOL DISTRICT HAS ADOPTED AN ENERGY CONSERVATION PROGRAM THAT ESTABLISHES AN ENERGY CONSUMPTION BASELINE AND MAKES RECOMMENDATIONS TO MODIFY SYSTEMS AND OPERATIONAL PROCEDURES. (AUTHOR/MLF)
 JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 48; 8; 53-56

ACCESSION NUMBER: EJ136364
 CLEARINGHOUSE ACCESSION NUMBER: HE507335
 PUBLICATION DATE: MAR/APR 76
 TITLE: HOW COLLEGES CAN HELP STATE GOVERNMENTS
 PERSONAL AUTHOR: MATHER, ANNE D.
 DESCRIPTOR: *HIGHER EDUCATION; *INSTITUTIONAL ROLE; *INTERINSTITUTIONAL COOPERATION; *STATE GOVERNMENT; *STATE UNIVERSITIES; *INTERDISCIPLINARY APPROACH; *SOCIAL PROBLEMS; *ENVIRONMENT; *ENERGY; *PLANNING
 ISSUE: CIJE1976
 ABSTRACT: A SOUTHERN REGIONAL EDUCATION BOARD WORKSHOP HAS IDENTIFIED AND DISCUSSED TEN AREAS (INCLUDING ENVIRONMENTAL CONCERNS, LONG-RANGE PLANNING AND GROWTH POLICIES, AND ENERGY ISSUES) IN WHICH THE INTERDISCIPLINARY RESOURCES OF COLLEGES AND UNIVERSITIES CAN BE BROUGHT TO BEAR FOR MUTUAL BENEFIT. (EDITOR/JY)
 JOURNAL CITATION: AGB REPORTS; 18; 2; 8-10

ACCESSION NUMBER: EJ136634
 CLEARINGHOUSE ACCESSION NUMBER: SE515323
 PUBLICATION DATE: 75
 TITLE: IMPROVING THE QUALITY OF LIFE THROUGH BETTER USE OF ENERGY AND RESOURCES
 PERSONAL AUTHOR: SHEAFFER, JOHN R.
 DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *EDUCATIONAL TRENDS; *EDUCATIONAL PHILOSOPHY; *ENERGY; *NATURAL RESOURCES; *CONSERVATION EDUCATION; *EDUCATIONAL DEVELOPMENT; *EDUCATIONAL PRINCIPLES; *RELEVANCE (EDUCATION); *RESOURCE MANAGEMENT
 ISSUE: CIJE1976
 ABSTRACT: ENVIRONMENTAL EDUCATION CAN PROVIDE INFORMATION FOR BETTER MANAGEMENT OF ENERGY AND RESOURCES. IT MUST MAKE PEOPLE AWARE OF SOCIETY'S ABILITIES TO FIND SOLUTIONS TO ENVIRONMENTAL PROBLEMS. THIS REQUIRES PRESENTING THE DYNAMICS OF ECOLOGICAL PRINCIPLES AND EMPHASIZING ENVIRONMENTAL VALUES AND ATTITUDES AS WELL. (MR)
 JOURNAL CITATION: JOURNAL OF ENVIRONMENTAL EDUCATION; 7; 1; 1-10

ACCESSION NUMBER: EJ136644
 CLEARINGHOUSE ACCESSION NUMBER: SE515581
 PUBLICATION DATE: NOV/DEC 75
 TITLE: EFFECTS OF ENERGY CONSERVATION ON A UNIVERSITY CAMPUS
 PERSONAL AUTHOR: MOWATT, JAMES V.; BEATTY, JOHN H.
 DESCRIPTOR: *CONSERVATION; *EDUCATION; *ENERGY; *ENVIRONMENTAL RESEARCH; *HEALTH EDUCATION; *HIGHER EDUCATION; *CLIMATE CONTROL; *DEPLETED RESOURCES; *ENVIRONMENTAL EDUCATION; *PHYSICAL ENVIRONMENT
 ISSUE: CIJE1976
 JOURNAL CITATION: JOURNAL OF ENVIRONMENTAL HEALTH; 38; 31 171-173

ACCESSION NUMBER: EJ136654
 CLEARINGHOUSE ACCESSION NUMBER: SE515996
 PUBLICATION DATE: FEB 76
 TITLE: THE NEW WORLD OF MATERIALS
 PERSONAL AUTHOR: ABELSON, PHILIP H.; HAMMOND, ALLEN L.
 DESCRIPTOR: *ECONOMIC CHANGE; *INDUSTRIALIZATION; *INDUSTRIAL TECHNOLOGY; *NATURAL RESOURCES; *DEVELOPING NATIONS; *DEVELOPED NATIONS; *ECONOMIC PROGRESS; *ENERGY; *TECHNOLOGICAL ADVANCEMENT
 ISSUE: CIJE1976
 ABSTRACT: ECONOMIC GROWTH WILL BE CONSTRAINED BY SUPPLIES OF ENERGY AND RAW MATERIALS. NATURAL RESOURCE OWNERSHIP IS SHIFTING TOWARD NATIONALIZATION RATHER THAN FOREIGN OWNERSHIP. ENERGY PRICES AND ENVIRONMENTAL AWARENESS ARE FORCING REEVALUATION OF EXTRACTING AND PROCESSING TECHNIQUES. THESE DEVELOPMENTS WILL AFFECT THE INDUSTRIAL AND SOCIAL CHARACTER OF DEVELOPED AND DEVELOPING COUNTRIES. (MR)
 JOURNAL CITATION: SCIENCE; 191; 4228; 633-636

ACCESSION NUMBER: EJ136660
 CLEARINGHOUSE ACCESSION NUMBER: SE516002
 PUBLICATION DATE: FEB 76
 TITLE: ENERGY IMPLICATIONS OF MATERIALS PROCESSING
 PERSONAL AUTHOR: HAYES, EARL T.
 DESCRIPTOR: *COST EFFECTIVENESS; *ECONOMIC RESEARCH; *ENERGY; *INDUSTRIAL TECHNOLOGY; *PRODUCTION TECHNIQUES; *METALS; *NATURAL RESOURCES
 ISSUE: CIJE1976
 ABSTRACT: PROCESSING OF MATERIALS COULD BECOME ENERGY-LIMITED RATHER THAN RESOURCE-LIMITED. METHODS TO EXTRACT METALS, INDUSTRIAL MINERALS, AND ENERGY MATERIALS AND CONVERT THEM TO USEFUL STATES REQUIRES MORE THAN ONE-FIFTH OF THE UNITED STATES ENERGY BUDGET. ENERGY ACCOUNTING BY INDUSTRIES MUST INCLUDE A TOTAL SYSTEMS ANALYSIS OF COSTS TO INSURE NET ENERGY SAVINGS. (MR)
 JOURNAL CITATION: SCIENCE; 191; 4228; 661-665

ACCESSION NUMBER: EJ136664
 CLEARINGHOUSE ACCESSION NUMBER: SE516006
 PUBLICATION DATE: FEB 76
 TITLE: THE AGE OF SUBSTITUTABILITY
 PERSONAL AUTHOR: GOELLER, H. E.; WEINBERG, ALVIN M.
 DESCRIPTOR: *DEPLETED RESOURCES; *ENERGY; *INDUSTRIAL TECHNOLOGY; *RECYCLING; *SOCIOECONOMIC INFLUENCES; *ECONOMIC CHANGE; *FUELS; *INDUSTRIALIZATION; *METALS; *NATURAL RESOURCES
 ISSUE: CIJE1976
 ABSTRACT: DWINDLING MINERAL RESOURCES MIGHT CAUSE A SHIFT FROM NONRENEWABLE RESOURCES TO RENEWABLE RESOURCES AND INEXHAUSTIBLE ELEMENTS SUCH AS IRON AND ALUMINUM. ALTERNATIVE ENERGY SOURCES SUCH AS BREEDER, FUSION, SOLAR, AND GEOTHERMAL POWER MUST BE DEVELOPED FOR PRODUCTION AND RECYCLING OF MATERIALS. SUBSTITUTION AND, HENCE, LIVING STANDARDS ULTIMATELY DEPEND ON ENERGY. (MR)
 JOURNAL CITATION: SCIENCE; 191; 4228; 683-689

ACCESSION NUMBER: EJ136671
 CLEARINGHOUSE ACCESSION NUMBER: SE516013
 PUBLICATION DATE: FEB 76
 TITLE: MATERIALS FOR ADVANCED ENERGY TECHNOLOGIES
 PERSONAL AUTHOR: CLAASSEN, RICHARD S.
 DESCRIPTOR: *ENERGY; *FUELS; *PRODUCTION TECHNIQUES; *SCIENTIFIC RESEARCH; *INDUSTRIAL TECHNOLOGY; *SOLAR RADIATION; *COAL; *NUCLEAR REACTORS
 ISSUE: CIJE1976
 JOURNAL CITATION: SCIENCE; 191; 4228; 739-745

ACCESSION NUMBER: EJ136677
 CLEARINGHOUSE ACCESSION NUMBER: SE516019
 PUBLICATION DATE: FEB 76
 TITLE: RENEWABLE RESOURCES FOR THE PRODUCTION OF FUELS AND CHEMICALS
 PERSONAL AUTHOR: SARKANEN, KYOSTI V.
 DESCRIPTOR: *AGRICULTURAL PRODUCTION; *ECONOMIC RESEARCH; *ENERGY; *NATURAL RESOURCES; *PRODUCTION TECHNIQUES; *CHEMICAL INDUSTRY; *INDUSTRIAL TECHNOLOGY
 ISSUE: CIJE1976
 JOURNAL CITATION: SCIENCE; 191; 4228; 773-776

ACCESSION NUMBER: EJ136680
 CLEARINGHOUSE ACCESSION NUMBER: SE516024
 PUBLICATION DATE: NOV-DEC 75
 TITLE: THE LITTLE-KNOWN CRISIS
 PERSONAL AUTHOR: ECKHOLM, ERIK P.
 DESCRIPTOR: *DEVELOPING NATIONS; *ENERGY; *ENVIRONMENT; *FUELS; *WORLD PROBLEMS; *ECOLOGY; *ENVIRONMENTAL INFLUENCES; *TREES
 ISSUE: CIJE1976
 ABSTRACT: FOR ONE-THIRD OF THE WORLD'S PEOPLE, THE ENERGY CRISIS MEANS THE DAILY SCRAMBLE TO FIND THE WOOD THEY NEED TO COOK. THE ACCELERATING DESTRUCTION OF FORESTS THROUGHOUT AFRICA, ASIA AND LATIN AMERICA AND THE UTILIZATION OF MANURE AS A FIREWOOD SUBSTITUTE MAY PRODUCE THE MOST PROFOUND ECOLOGICAL CRISIS OF THIS CENTURY. (BT)
 JOURNAL CITATION: CERES; 8; 6; 44-47

ACCESSION NUMBER: EJ136701
 CLEARINGHOUSE ACCESSION NUMBER: SE516201
 PUBLICATION DATE: MAR 76
 TITLE: RURAL ELEMENTARY CHILDREN'S ATTITUDES TOWARD THE ENERGY CRISIS
 PERSONAL AUTHOR: AYERS, JERRY B.
 DESCRIPTOR: *ATTITUDES; *ELEMENTARY SCHOOL SCIENCE; *ENERGY CONSERVATION; *RURAL URBAN DIFFERENCES; *UTILITIES; *ELECTRICITY; *ELEMENTARY EDUCATION; *OPINIONS; *RADIATION EFFECTS; *SCIENCE EDUCATION
 ISSUE: CIJE1976
 ABSTRACT: REPORTS ON THE RESULTS OF A SURVEY OF THE ATTITUDES OF RURAL FIFTH THROUGH SEVENTH GRADE STUDENTS TOWARD THE ENERGY CRISIS. AMONG RESULTS, IT WAS FOUND THAT CHILDREN AT THIS AGE LEVEL APPEARED TO UNDERSTAND SOME OF THE PROBLEMS AND IMPLICATIONS OF ELECTRICITY GENERATION FROM FOSSIL AND NUCLEAR FUELS, AND THAT OVERALL, OLDER CHILDREN AND FEMALES WERE MORE CAUTIOUS IN THEIR VIEWS CONCERNING THE GENERATION OF ELECTRICITY. (CP)
 JOURNAL CITATION: SCHOOL SCIENCE AND MATHEMATICS; 76; 3; 238-240

ACCESSION NUMBER: EJ136819
 CLEARINGHOUSE ACCESSION NUMBER: SE516452
 PUBLICATION DATE: APR 76
 TITLE: ADVANCES IN SOLAR HEATING AND COOLING SYSTEMS
 PERSONAL AUTHOR: WARD, DAN S.
 DESCRIPTOR: *ENERGY; *HEAT; *SOLAR RADIATION; *SCIENTIFIC RESEARCH; *THERMODYNAMICS; *FUELS; *INSTRUCTIONAL MATERIALS; *PHYSICS; *SCIENCE EDUCATION; *SCIENCE MATERIALS
 ISSUE: CIJE1976
 ABSTRACT: REPORTS ON TECHNOLOGICAL ADVANCEMENTS IN THE FIELDS OF SOLAR COLLECTORS, THERMAL STORAGE SYSTEMS, AND SOLAR HEATING AND COOLING SYSTEMS. DIAGRAMS AID IN THE UNDERSTANDING OF THE THERMODYNAMICS OF THE SYSTEMS. (CP)
 JOURNAL CITATION: PHYSICS TEACHER; 14; 4; 199-204

ACCESSION NUMBER: EJ136823
 CLEARINGHOUSE ACCESSION NUMBER: SE516456
 PUBLICATION DATE: APR 76
 TITLE: SOLAR ENERGY PART II--THE GREENHOUSE EFFECT
 PERSONAL AUTHOR: YOUNG, MATTHEW
 DESCRIPTOR: *ENERGY; *FUELS; *HEATING; *SOLAR RADIATION; *THERMODYNAMICS; *HEAT; *PHYSICS; *SCIENCE EDUCATION; *SCIENCE MATERIALS
 ISSUE: CIJE1976
 ABSTRACT: STUDIES THE PRACTICALITY OF WATER-FILLED FLAT-PLATE SOLAR COLLECTORS. AN ESTIMATE OF SOLAR ENERGY GATHERING ABILITIES AND APPLICATIONS IN HEATING OF HOMES ARE CONSIDERED. (CP)
 JOURNAL CITATION: PHYSICS TEACHER; 14; 4; 226-229

ACCESSION NUMBER: EJ136861
CLEARINGHOUSE ACCESSION NUMBER: SE516513
PUBLICATION DATE: APR 76
TITLE: THE U.S. STRIVES FOR ENERGY SUFFICIENCY
DESCRIPTOR: *CONFERENCE REPORTS; *ENERGY; *ENVIRONMENT;
*ENVIRONMENTAL RESEARCH; *FEDERAL PROGRAMS; POLLUTION;
PUBLIC HEALTH; RESEARCH; TECHNOLOGY
ISSUE: CIJE1976
ABSTRACT: IN-HOUSE AND EXTRAMURAL RESEARCH BEING CONDUCTED UNDER THE FEDERAL INTERAGENCY ENERGY/ENVIRONMENT RESEARCH AND DEVELOPMENT PROGRAM WAS DESCRIBED AT THE RECENT NATIONAL CONFERENCE ON HEALTH, ENVIRONMENTAL EFFECTS, AND CONTROL TECHNOLOGY ON ENERGY USE. PROGRAMS TO DEVELOP CONTROL TECHNOLOGY AND SURVEY HEALTH AND ECOLOGICAL EFFECTS ARE NOW UNDERWAY. (BT)
JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 10; 4: 924-925

ACCESSION NUMBER: EJ136867
CLEARINGHOUSE ACCESSION NUMBER: SE516628
PUBLICATION DATE: APR 76
TITLE: THE ENERGY CRISIS: WHAT PHYSICISTS CAN CONTRIBUTE
PERSONAL AUTHOR: CHIANG, TAY YONG
DESCRIPTOR: *ENERGY; *FUELS; *NATURAL RESOURCES; *PHYSICS;
*SCIENTIFIC RESEARCH; NUCLEAR PHYSICS; SCIENTISTS; SOLAR RADIATION
ISSUE: CIJE1976
ABSTRACT: DIVIDES THE COMPONENTS OF THE ENERGY CRISIS INTO THOSE WHICH DEMAND IMMEDIATE, MODERATE TERM, AND LONG TERM RESEARCH EFFORTS. DELINEATES SPECIFIC TOPICS IN EACH CATEGORY AND SOLICITS PHYSICISTS' EFFORTS IN THESE AREAS. (CP)
JOURNAL CITATION: PHYSICS TODAY; 29; 4: 9-11

ACCESSION NUMBER: EJ138704
CLEARINGHOUSE ACCESSION NUMBER: S0504759
PUBLICATION DATE: SPR 76
TITLE: THE MIDDLE EAST AND THE ENERGY CRISIS: ITS HISTORICAL DEVELOPMENT
PERSONAL AUTHOR: OLSON, ROBERT W.
DESCRIPTOR: *MIDDLE EASTERN STUDIES; *NATURAL RESOURCES;
*ENERGY; *WORLD PROBLEMS
ISSUE: CIJE1976
ABSTRACT: THE AUTHOR TRACES THE HISTORY OF THE OIL SITUATION AND CONNECTED PROBLEMS IN THE MIDDLE EAST. (AUTHOR/RM)
JOURNAL CITATION: INDIANA SOCIAL STUDIES QUARTERLY; 29; 1: 79-86

ACCESSION NUMBER: EJ139082
CLEARINGHOUSE ACCESSION NUMBER: CE509111
PUBLICATION DATE: SEP/OCT 75
TITLE: TEACHING TECHNIQUES RELATED TO QUALITY OF LIFE
PERSONAL AUTHOR: SPITZE, HAZEL TAYLOR
DESCRIPTOR: *LEARNING ACTIVITIES; *TEACHING TECHNIQUES;
*PERSONAL VALUES; *AFFECTIVE OBJECTIVES; *CONSERVATION (ENVIRONMENT); *LIFE STYLE; INSTRUCTIONAL MATERIALS; VALUES;
HOME ECONOMICS EDUCATION; ENERGY CONSERVATION
ISSUE: CIJE1976
ABSTRACT: THE AUTHOR OFFERS SEVEN EXERCISES WHICH HOME ECONOMICS OR OTHER TEACHERS MAY USE TO HELP THEIR STUDENTS CLARIFY THEIR VALUES AS THEY RELATE TO THE CONSUMPTION AND CONSERVATION OF NATURAL RESOURCES, ESPECIALLY ENERGY SOURCES, AND RECOMMENDS A POPULAR BOOK, "HOW TO LIVE CHEAP BUT GOOD," TO BE ANALYZED WITH STUDENTS. (AJ)
JOURNAL CITATION: ILLINOIS TEACHER OF HOME ECONOMICS; 19; 1: 6-8

ACCESSION NUMBER: EJ139888
CLEARINGHOUSE ACCESSION NUMBER: SE516284
PUBLICATION DATE: MAR 76
TITLE: FEDERAL BUDGET BOOSTS RESEARCH
PERSONAL AUTHOR: LEEPER, E. W.
DESCRIPTOR: *BUDGETING; *FEDERAL AID; *FEDERAL PROGRAMS;
*RESEARCH; *SCIENCES; ENERGY; FINANCIAL SUPPORT; SCIENCE EDUCATION; SCIENTIFIC RESEARCH
ISSUE: CIJE1976
ABSTRACT: DISCLOSES THE PROPOSED 1977 FEDERAL BUDGET OF \$26.7 BILLION FOR RESEARCH AND DEVELOPMENT WHICH IS AN INCREASE OF 11 PERCENT IN OVERALL FEDERAL OBLIGATIONS AND A 9 PERCENT UPSPING IN THE APPLIED AND BASIC RESEARCH PORTIONS. (LS)

JOURNAL CITATION: BIOSCIENCE; 26; 3: 221-222

ACCESSION NUMBER: EJ139908
CLEARINGHOUSE ACCESSION NUMBER: SE516382
PUBLICATION DATE: APR 76
TITLE: SCIENCE/SOCIETY CASE STUDY--NET ENERGY: FIGURING THE TRUE YIELD
PERSONAL AUTHOR: MOORE, JOHN W., ED.; MOORE, ELIZABETH A., ED.
DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *INSTRUCTIONS;
*SECONDARY SCHOOL SCIENCES; CASE STUDIES (EDUCATION);
DEPLETED RESOURCES; DISCUSSION (TEACHING TECHNIQUE); SCIENCE EDUCATION; SECONDARY EDUCATION
ISSUE: CIJE1976
ABSTRACT: DESCRIBES THE USE OF THE NET ENERGY CONCEPT IN THE CLASSROOM AS WELL AS ITS INFLUENCE ON TECHNOLOGY. (LS)
JOURNAL CITATION: SCIENCE TEACHER; 43; 4: 24-25

ACCESSION NUMBER: EJ140044
CLEARINGHOUSE ACCESSION NUMBER: SE516630
PUBLICATION DATE: APR 76
TITLE: EDITORIAL SPEAKING: THE MATERIALS REVOLUTION: CAN WE HANDLE IT?
DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ENERGY CONSERVATION; *NATURAL RESOURCES; *SOCIAL PROBLEMS;
EDITORIALS; FUELS; GOVERNMENT ROLE; RESOURCES; SCIENCE EDUCATION; TECHNOLOGY
ISSUE: CIJE1976
ABSTRACT: DISCUSSES THE NEED FOR INTELLIGENT MANAGEMENT OF GEOLOGIC AND BIOLOGIC RESOURCES. (MWM)
JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 53; 4: 205

ACCESSION NUMBER: EJ140140
CLEARINGHOUSE ACCESSION NUMBER: SE516726
PUBLICATION DATE: MAR 75
TITLE: FUTURE ENERGY SUPPLIES--A GEOLOGICAL FRONTIER
PERSONAL AUTHOR: ANDERSON, RICHARD J.
DESCRIPTOR: *CURRICULUM DEVELOPMENT; *COURSE CONTENTS;
*FUELS; *GEOLOGY; *INSTRUCTIONAL MATERIALS; COLLEGE SCIENCES;
ENERGY; HIGHER EDUCATION; SCIENCE EDUCATION
ISSUE: CIJE1976
ABSTRACT: SURVEYS PRESENT ENERGY DEMANDS AND AVAILABLE SOURCES. PROPOSES AN OUTLINE OF A GEOLOGY OF FUELS COURSE. (CP)
JOURNAL CITATION: JOURNAL OF GEOLOGICAL EDUCATION; 23; 2: 64-66

ACCESSION NUMBER: EJ140160
CLEARINGHOUSE ACCESSION NUMBER: SE516746
PUBLICATION DATE: NOV 75
TITLE: THE OIL GAME--ECONOMIC GEOLOGY TEACHING DEVICE
PERSONAL AUTHOR: WHEELER, ROBERT R.
DESCRIPTOR: *EDUCATIONAL GAMES; *ENERGY; *INSTRUCTIONAL MATERIALS;
*SCIENCE ACTIVITIES; *STUDENT PROJECTS;
CONSTRUCTION (PROCESS); ECONOMICS; FUELS; SECONDARY SCHOOL SCIENCE; SECONDARY EDUCATION
ISSUE: CIJE1976
JOURNAL CITATION: JOURNAL OF GEOLOGICAL EDUCATION; 23; 5: 164-166

ACCESSION NUMBER: EJ140250
CLEARINGHOUSE ACCESSION NUMBER: SE516951
PUBLICATION DATE: MAY 76
TITLE: RESOURCE LETTER SE-1: SOLAR ENERGY
PERSONAL AUTHOR: MCDANIELS, D. K.; THROOP, M. J.
DESCRIPTOR: *HEATING; *INSTRUCTIONAL MATERIALS; *RESOURCE MATERIALS;
*SOLAR RADIATION; *UTILITIES; BOOKS; ENERGY; LITERATURE REVIEWS;
RESEARCH REVIEWS (PUBLICATIONS); SCIENCE EDUCATION
ISSUE: CIJE1976
ABSTRACT: THIS IS ONE OF A SERIES OF RESOURCE LETTERS ON DIFFERENT TOPICS INTENDED TO GUIDE COLLEGE PHYSICISTS, ASTRONOMERS, AND OTHER SCIENTISTS TO SOME OF THE LITERATURE AND OTHER TEACHING AIDS THAT MAY HELP IMPROVE COURSE CONTENTS IN SPECIFIED FIELDS. (AUTHOR/CP)
JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS; 44; 5: 409-416

ACCESSION NUMBER: EJ140262
 CLEARINGHOUSE ACCESSION NUMBER: SE516971
 PUBLICATION DATE: JUN 76
 TITLE: ENERGY USE IN RURAL INDIA
 PERSONAL AUTHOR: REVELLE, ROGER
 DESCRIPTOR: *ENERGY; *FUELS; *HUMAN RESOURCES; *NATURAL RESOURCES; *ECONOMICALLY DISADVANTAGED; *RURAL ENVIRONMENT; *SCIENCE EDUCATION; *INDIA
 ISSUE: CIJE1976
 JOURNAL CITATION: SCIENCE; 192; 4243; 969-975

ACCESSION NUMBER: EJ141215
 CLEARINGHOUSE ACCESSION NUMBER: EA507339
 PUBLICATION DATE: JUL 76
 TITLE: ENERGY CONSERVATION
 PERSONAL AUTHOR: WALTON, WILLIAM; THOMPSON, DONALD
 DESCRIPTOR: *ENERGY CONSERVATION; *SCHOOL IMPROVEMENT; *BUILDING OPERATION; *BUILDING DESIGN; *HIGHER EDUCATION; *ELECTRONIC CONTROL UTILITIES; *AUTOMATION; *COMPUTER SCIENCE; *ELEMENTARY EDUCATION
 ISSUE: CIJE1976
 ABSTRACT: ENERGY CONSERVATION METHODS TAKEN AT FOUR COLLEGES AND ONE ELEMENTARY SCHOOL. (MLF)
 JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 48; 11; 31-34

ACCESSION NUMBER: EJ141217
 CLEARINGHOUSE ACCESSION NUMBER: EA507341
 PUBLICATION DATE: JUL 76
 TITLE: RUNNING TIME METERS SAVE ENERGY AND DOLLARS
 PERSONAL AUTHOR: SNEATHEN, JAMES; VIRSKUS, VYTAUTAS
 DESCRIPTOR: *ENERGY CONSERVATION; *MEASUREMENT INSTRUMENTS; *HEATING; *FUEL CONSUMPTION; *HIGHER EDUCATION; *MICHIGAN STATE UNIVERSITY
 ISSUE: CIJE1976
 ABSTRACT: AN INEXPENSIVE METER IS USED TO MEASURE THE AMOUNT OF STEAM USED TO HEAT MORE THAN 80 MICHIGAN STATE UNIVERSITY BUILDINGS. (MLF)
 JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 48; 11; 42-43

ACCESSION NUMBER: EJ141481
 CLEARINGHOUSE ACCESSION NUMBER: HE507460
 PUBLICATION DATE: MAY/JUN 76
 TITLE: A SAVE-ENERGY, SAVE-MONEY PROGRAM THAT PAYS OFF
 PERSONAL AUTHOR: EMBERSITS, JOHN F.
 DESCRIPTOR: *HIGHER EDUCATION; *ENERGY CONSERVATION; *INSTITUTIONAL FACILITIES; *COLLEGE ADMINISTRATION; *COST EFFECTIVENESS; *FACILITY IMPROVEMENT; *BUDGETING; *GO'DELINES; *COSTS; *MAINTENANCE
 ISSUE: CIJE1976
 ABSTRACT: SUGGESTED GUIDELINES FOR ENERGY SAVING ON CAMPUS INCLUDE A 3-PHASE PLAN: (1) QUICK FIX--EFFECTIVE MANAGEMENT OF WHAT YOU ALREADY HAVE; (2) RETFITTING--MODIFICATION OF EXISTING SYSTEMS AND INSTALLATION OF SIMPLE CONTROLS; (3) SYSTEMS CONVERT--INSTALLATION OF COMPUTERIZED CONTROLS, WASTE-HEAT RECOVERY, SOLID-WASTE RECOVERY UTILIZATION AND OTHER SOPHISTICATED TECHNIQUES. (EDITOR/JT)
 JOURNAL CITATION: AGB REPORTS; 18; 3; 15-19

ACCESSION NUMBER: EJ141789
 CLEARINGHOUSE ACCESSION NUMBER: SE516765
 PUBLICATION DATE: APR 76
 TITLE: NUCLEAR POWER: A NEW DIMENSION IN POLITICS
 PERSONAL AUTHOR: EDWARDS, GORDON
 DESCRIPTOR: *AGENCY ROLE; *ENERGY; *NUCLEAR WARFARE; *POLITICAL ISSUES; *SOCIAL PROBLEMS; *POLLUTION; *PUBLIC HEALTH; *SOCIOECONOMIC INFLUENCES; *SAFETY; *SOCIAL RESPONSIBILITY; *CANADA; *CANADIAN COALITION FOR NUCLEAR RESPONSIBILITY
 ISSUE: CIJE1976
 ABSTRACT: SUMMARIZES ISSUES REGARDING THE DEVELOPMENT OF NUCLEAR POWER IN CANADA AND REASONS FOR THE ORGANIZATION OF THE CANADIAN COALITION FOR NUCLEAR RESPONSIBILITY. (RM)
 JOURNAL CITATION: ALTERNATIVES; 5; 2; 26-31

ACCESSION NUMBER: EJ142450
 CLEARINGHOUSE ACCESSION NUMBER: CE505329
 PUBLICATION DATE: AUG 76
 TITLE: SOLAR ENERGY: POTENTIAL POWERHOUSE FOR JOBS
 PERSONAL AUTHOR: MCCALLION, TOM
 DESCRIPTOR: *TECHNOLOGICAL ADVANCEMENT; *EMPLOYMENT PROJECTIONS; *SOLAR RADIATION; *PROFESSIONAL OCCUPATIONS; *INDUSTRIAL PERSONNEL; *EMPLOYMENT OPPORTUNITIES; *OCCUPATIONAL INFORMATION; *ENERGY; *INDUSTRY; *INDUSTRIAL TECHNOLOGY
 ISSUE: CIJE1977
 ABSTRACT: COMPONENTS OF SOLAR ENERGY SYSTEMS ARE DESCRIBED, THE DEVELOPMENT OF THE SOLAR INDUSTRY DISCUSSED, AND IMPLICATIONS ARE DRAWN FOR EMPLOYMENT OPPORTUNITIES IN INDUSTRIES (WHICH MAY EXPAND INTO NEW, SOLAR-RELATED AREAS) AND IN THE PROFESSIONS, FROM LAW TO SALES, UPON THE ADVENT OF SOLAR HEATING. (AJ)
 JOURNAL CITATION: WORKLIFE; 1; 8; 2-6

ACCESSION NUMBER: EJ143444
 CLEARINGHOUSE ACCESSION NUMBER: SE516564
 PUBLICATION DATE: MAR 76
 TITLE: THE HAZARDS POSED BY THE GLOBAL DEVELOPMENT OF NUCLEAR POWER
 PERSONAL AUTHOR: O'REILLY, S. A.
 DESCRIPTOR: *ACCIDENT PREVENTION; *ENERGY; *NUCLEAR PHYSICS; *SAFETY; *ENVIRONMENT; *NATURAL RESOURCES; *SCIENCE EDUCATION
 ISSUE: CIJE1977
 ABSTRACT: OUTLINES THE GROWTH IN THE DEMAND FOR ENERGY ON A WORLD-WIDE BASIS, REVIEWS THE DEVELOPMENT OF NUCLEAR POWER AND POINTS OUT THE MANY HAZARDS IN THE NUCLEAR FUEL CYCLE, DESCRIBES THE NATURE OF NUCLEAR WASTES AND EXPLAINS THE QUANTITIES INVOLVED AND THE CURRENT TECHNIQUES FOR WASTE DISPOSAL. (GS)
 JOURNAL CITATION: SCHOOL SCIENCE REVIEW; 57; 200; 427-440

ACCESSION NUMBER: EJ143463
 CLEARINGHOUSE ACCESSION NUMBER: SE516767
 PUBLICATION DATE: MAY 76
 TITLE: MAINTAINING AN ENVIRONMENTAL BALANCE
 DESCRIPTOR: *CONFERENCES; *ECONOMICS; *ENVIRONMENT; *ENERGY; *POLLUTION; *STANDARDS; *TECHNOLOGY; *WASTES; *WATER POLLUTION CONTROL; *NATIONAL ENVIRONMENTAL DEVELOPMENT ASSOCIATION
 ISSUE: CIJE1977
 ABSTRACT: A RECENT CONFERENCE OF THE NATIONAL ENVIRONMENTAL DEVELOPMENT ASSOCIATION FOCUSED ON THE CONCEPTS OF ENVIRONMENT, ENERGY AND ECONOMY AND UNDERSCORED THE NECESSITY FOR BALANCING THE CRITICAL NEEDS EMBODIED IN THESE ISSUES. TOPICS DISCUSSED INCLUDED: NUCLEAR ENERGY AND WASTES; WATER POLLUTION CONTROL; FEDERAL REGULATIONS; ENVIRONMENTAL TECHNOLOGY AND ENVIRONMENTAL CONTROL COST IMPACT. (BT)
 JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 10; 5; 418-419

ACCESSION NUMBER: EJ143466
 CLEARINGHOUSE ACCESSION NUMBER: SE516770
 PUBLICATION DATE: MAY 76
 TITLE: PROCESSING ENERGY FROM WASTES
 PERSONAL AUTHOR: WILSON, E. MILTON; FREEMAN, HARRY M.
 DESCRIPTOR: *TECHNOLOGY; *UTILITIES; *WASTES; *ENERGY; *ENVIRONMENT; *ENVIRONMENTAL RESEARCH; *FUELS; *WASTE DISPOSAL
 ISSUE: CIJE1977
 JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 10; 5; 430-435

ACCESSION NUMBER: EJ143467
 CLEARINGHOUSE ACCESSION NUMBER: SE516771
 PUBLICATION DATE: MAY 76
 TITLE: METALS IN THE WASTES WE BURN?
 PERSONAL AUTHOR: CAMPBELL, WILLIAM J.
 DESCRIPTOR: *AIR POLLUTION CONTROL; *ENERGY; *FUELS; *METALS; *WASTES; *CHEMICAL ANALYSIS; *ENVIRONMENT; *TECHNOLOGY; *UTILITIES; *WASTE DISPOSAL
 ISSUE: CIJE1977
 JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 10; 5; 436-438

ACCESSION NUMBER: EJ143503
CLEARINGHOUSE ACCESSION NUMBER: SE516841
PUBLICATION DATE: MAY 76
TITLE: ENERGY TEACHING CENTERS—ONE GOOD WAY TO EXPLORE ALTERNATIVES
PERSONAL AUTHOR: KENICK, LOIS E.

DESCRIPTOR: *CONTINUING EDUCATION CENTERS; *ENERGY CONSERVATION; *FUELS; *INSTRUCTION; *UTILITIES; ADULT EDUCATION; CONSERVATION (ENVIRONMENT); SCIENCE EDUCATION

ISSUE: CIJE1977

ABSTRACT: PROPOSES THE DEVELOPMENT OF COMMUNITY CENTERS IN WHICH SCHOOL CHILDREN, PARENTS, AND HOMEOWNERS CAN BE EDUCATED IN AREAS OF ENERGY CONSERVATION AND ALTERNATIVE FUEL SOURCES. PROVIDES BRIEF PASSAGES ON SOME OF THE MOST PROMISING ALTERNATIVE FUELS. (CP)

JOURNAL CITATION: SCIENCE TEACHER; 43; 5: 34-35

ACCESSION NUMBER: EJ143554
CLEARINGHOUSE ACCESSION NUMBER: SE516960
PUBLICATION DATE: MAY 76

TITLE: FLOWER POWER: PROSPECTS FOR PHOTOSYNTHETIC ENERGY
PERSONAL AUTHOR: POOLE, ALAN D.; WILLIAMS, ROBERT H.

DESCRIPTOR: *ENERGY; *FUELS; *PHOTOSYNTHESIS; *SOLAR RADIATION; *TECHNOLOGY; AGRICULTURE; BOTANY; COST EFFECTIVENESS; DEVELOPING NATIONS; WASTES

ISSUE: CIJE1977

ABSTRACT: THIS REPORT FOCUSES ON THE PROSPECTS AND POSSIBILITIES FOR USING BIOMASS AS AN ENERGY SOURCE FOR THE UNITED STATES. HOWEVER, THE GREATEST POTENTIAL FOR UTILIZING BIOMASS AS FUEL EXISTS IN ENERGY-STARVED DEVELOPING NATIONS. SINCE IT APPEARS POSSIBLE TO DEVELOP BIOMASS TECHNOLOGIES KEEPING CAPITAL INPUTS LOW IN RELATION TO LABOR INPUTS. (BT)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 32; 5: 48-58

ACCESSION NUMBER: EJ143560
CLEARINGHOUSE ACCESSION NUMBER: SE516969
PUBLICATION DATE: MAY 76

TITLE: TOWER POWER: PRODUCING FUELS FROM SOLAR ENERGY
PERSONAL AUTHOR: ANTAL, M. J., JR.

DESCRIPTOR: *ENERGY; *FUELS; *SOLAR RADIATION; *TECHNOLOGY; *WASTES; CHEMICAL REACTIONS; CHEMISTRY; COSTS; ECONOMIC RESEARCH

ISSUE: CIJE1977

ABSTRACT: THIS ARTICLE EXAMINES THE USE OF POWER TOWER TECHNOLOGIES FOR THE PRODUCTION OF SYNTHETIC FUELS. THIS PROCESS OVERCOMES THE LIMITATIONS OF OTHER PROCESSES BY USING A SOLAR FURNACE TO DRIVE ENDOTHERMIC FUEL PRODUCING REACTIONS AND THE RESULTING FUELS SERVE AS A MEDIUM FOR STORING SOLAR ENERGY. (BT)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 32; 5: 58-62

ACCESSION NUMBER: EJ144929
CLEARINGHOUSE ACCESSION NUMBER: HE507808
PUBLICATION DATE: FEB 76
TITLE: ENERGY CONSERVATION AT WORCESTER POLYTECHNIC INSTITUTE
PERSONAL AUTHOR: PIERCE, GARDNER T.

DESCRIPTOR: *HIGHER EDUCATION; *ENERGY CONSERVATION; *FUEL CONSUMPTION; *BUILDING OPERATIONS; *INSTITUTIONAL ADMINISTRATION; *SCHOOL BUILDINGS; ECOLOGICAL FACTORS; EDUCATIONAL COMPLEXES; MAINTENANCE; COST EFFECTIVENESS; *WORCESTER POLYTECHNIC INSTITUTE

ISSUE: CIJE1977

ABSTRACT: RESPONDING TO THE NEED FOR REDUCED ENERGY CONSUMPTION, ADMINISTRATORS AT WORCESTER POLYTECHNIC INSTITUTE HAVE DISCOVERED SINCE 1973 THAT COMMON SENSE AND GOOD MANAGEMENT TECHNIQUES, AND THE COOPERATION OF AN INVOLVED CAMPUS COMMUNITY, COULD LEAD TO SIGNIFICANT SAVINGS WITHOUT DISRUPTION OF COLLEGE ROUTINES. (EDITOR/LHM)

JOURNAL CITATION: PLANNING FOR HIGHER EDUCATION; 5; 1: 5/7

ACCESSION NUMBER: EJ145329
CLEARINGHOUSE ACCESSION NUMBER: SE517062
PUBLICATION DATE: APR 76
TITLE: MAKING A FIBREGLASS SOLAR REFLECTOR
PERSONAL AUTHOR: LENDRUM, P.

DESCRIPTOR: *ENERGY; *INSTRUCTIONAL MATERIALS; *PHYSICS; *STUDENT PROJECTS; *SOLAR RADIATION; PHYSICAL SCIENCES; SCIENCE ACTIVITIES; SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE

ISSUE: CIJE1977
JOURNAL CITATION: SOUTH AUSTRALIAN SCIENCE TEACHERS JOURNAL; 76; 43-45

ACCESSION NUMBER: EJ145422
CLEARINGHOUSE ACCESSION NUMBER: SE517413
PUBLICATION DATE: SEP 76

TITLE: ENVIRONMENTAL PHYSICS

PERSONAL AUTHOR: SAPERSTEIN, ALVIN M.

DESCRIPTOR: *COLLEGE SCIENCE; *ENERGY; *INSTRUCTION; *PHYSICS; *SCIENCE COURSES; ENVIRONMENTAL EDUCATION; HIGHER EDUCATION; NATURAL SCIENCES; SCIENCE EDUCATION; SCIENCE UNITS

ISSUE: CIJE1977

ABSTRACT: DESCRIBES A ONE QUARTER INTRODUCTORY COLLEGE PHYSICS COURSE FOR NONSCIENCE MAJORS WHICH CONCENTRATES UPON ENERGY, ENERGY SYSTEMS, AND RELEVANT PRACTICAL SITUATIONS EXEMPLIFYING ENERGY LAWS. RESULTS INDICATE THE COURSE IS ALSO SUITABLE AS A PREPARATORY COURSE FOR PREPROFESSIONAL STUDENTS. (SL)

JOURNAL CITATION: JOURNAL OF COLLEGE SCIENCE TEACHING; 6; 1: 34-35

ACCESSION NUMBER: EJ145507
CLEARINGHOUSE ACCESSION NUMBER: S0505011
PUBLICATION DATE: OCT 76
TITLE: GEOTHERMAL ENERGY: EVALUATION OF A RESOURCE
PERSONAL AUTHOR: BOCKEMUEHL, W. W.

DESCRIPTOR: *NATURAL RESOURCES; *ENERGY; *HEAT; *ECOLOGICAL FACTORS; *EARTH SCIENCES; ELECTRICITY; ENVIRONMENT; COST EFFECTIVENESS; HIGHER EDUCATION; GEOGRAPHY; NEW ZEALAND

ISSUE: CIJE1977

ABSTRACT: THIS ARTICLE SUGGESTS THE USE OF GEOTHERMAL ENERGY FOR PRODUCING ELECTRICITY, USING AS AN EXAMPLE THE DEVELOPMENT AT WAIKAKEI, NEW ZEALAND. OTHER GEOTHERMAL AREAS ARE IDENTIFIED, AND ECONOMIC AND ENVIRONMENTAL COSTS OF ADDITIONAL DEVELOPMENT ARE EXPLORED. (AUTHOR/AV)

JOURNAL CITATION: JOURNAL OF GEOGRAPHY; 75; 7: 431-4

ACCESSION NUMBER: EJ145803
CLEARINGHOUSE ACCESSION NUMBER: CE505412
PUBLICATION DATE: SEP-OCT 76
TITLE: SOLAR ENERGY: THE STATE OF THE ART
PERSONAL AUTHOR: MILLER, CHARLES D.; PINELLI, THOMAS E.

DESCRIPTOR: *SOLAR RADIATION; *SYSTEMS CONCEPTS; CONTROLLED ENVIRONMENT; THERMAL ENVIRONMENT; ENERGY; ENERGY CONSERVATION; HEATING; HISTORICAL REVIEWS; COMPONENT BUILDING SYSTEMS; SOLAR ENERGY

ISSUE: CIJE1977

ABSTRACT: A BRIEF HISTORY OF SOLAR ENERGY USAGE AND SOLAR HEATING AND COOLING OF BUILDINGS. (EDITOR/JT)

JOURNAL CITATION: MAN/SOCIETY/TECHNOLOGY; 36; 1: 10-15

ACCESSION NUMBER: EJ146475
CLEARINGHOUSE ACCESSION NUMBER: EA507604
PUBLICATION DATE: OCT 76
TITLE: EFL REPORTS: HELP FOR HARD-PRESSED SCHOOL ADMINISTRATORS

DESCRIPTOR: *ADMINISTRATOR GUIDES; *INFORMATION SOURCES; *PROGRAM DESCRIPTIONS; *ANNOTATED BIBLIOGRAPHIES; SCHOOL CLOSING; ENERGY CONSERVATION; HANDICAPPED; ART ACTIVITIES; EDUCATIONAL FACILITIES LABORATORIES; EFL

ISSUE: CIJE1977

ABSTRACT: FIRST OF A SERIES FROM EFL, A NONPROFIT ORGANIZATION THAT UNDERTAKES RESEARCH, DEVELOPS AND DISSEMINATES INFORMATION, AND PROVIDES SERVICES CONCERNING EDUCATIONAL AND OTHER INSTITUTIONAL FACILITIES. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 49; 2: 27-28

ACCESSION NUMBER: EJ146478
CLEARINGHOUSE ACCESSION NUMBER: EA507607
PUBLICATION DATE: OCT 76
TITLE: ENERGY MANAGEMENT WORKSHOPS CAN SAVE YOU MONEY
PERSONAL AUTHOR: GARDNER, JOHN C.

DESCRIPTOR: *ENERGY CONSERVATION; *WORKSHOPS; *SCHOOL MAINTENANCE; *FACILITY GUIDELINES; *COST EFFECTIVENESS; ADMINISTRATOR GUIDES; CHECK LISTS; HIGHER EDUCATION

ISSUE: CIJE1977

ABSTRACT: AT A SERIES OF WORKSHOPS ACROSS THE COUNTRY, COLLEGE AND UNIVERSITY PHYSICAL PLANT ADMINISTRATORS AND CIVIL BUSINESS OFFICIALS ARE WORKING TOGETHER TO LEARN EFFECTIVE WAYS TO MANAGE ENERGY AND CUT COSTS. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 49; 2: 42-46

ACCESSION NUMBER: EJ146486

CLEARINGHOUSE ACCESSION NUMBER: EA507615

PUBLICATION DATE: OCT 76

TITLE: THE BRIGHT LIGHTS

DESCRIPTOR: *LIGHTING DESIGN; *PERFORMANCE SPECIFICATIONS; *EQUIPMENT STANDARDS; *MERCHANDISE INFORMATION; *ILLUMINATION LEVELS; *TECHNOLOGICAL ADVANCEMENT; *COLOR; *VISUAL PERCEPTION; *ENERGY CONSERVATION; *HIGH INTENSITY DISCHARGE LIGHTING

ISSUE: CIJE1977

ABSTRACT: HIGH INTENSITY DISCHARGE LIGHTING SOURCES SHARE THE COMPACTNESS AND BEAM CONTROLLABILITY OF INCANDESCENT SOURCES, BUT ARE FAR MORE EFFICIENT AND LONGER-LIVED. THEY SHARE THE EFFICIENCY AND LONG LIFE OF FLUORESCENT SOURCES, BUT ARE COMPACT AND OPTICALLY CONTROLLABLE, AND ARE AVAILABLE IN HIGHER WATTAGES. (AUTHOR/MLF)

JOURNAL CITATION: PROGRESSIVE ARCHITECTURE; 57; 10: 92-97

ACCESSION NUMBER: EJ146490

CLEARINGHOUSE ACCESSION NUMBER: EA507619

PUBLICATION DATE: SEP 76

TITLE: "PHANTOM" LIGHT CONSERVES ENERGY, SAVES MONEY

DESCRIPTOR: *ENERGY CONSERVATION; *LIGHTING DESIGN; *TECHNOLOGICAL ADVANCEMENT; *COST EFFECTIVENESS

ISSUE: CIJE1977

ABSTRACT: A "PHANTOM" FLUORESCENT TUBE PRODUCES A LOWER LEVEL OF LIGHT BUT THE EVENNESS OF ILLUMINATION IS MAINTAINED. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS; 13

ACCESSION NUMBER: EJ146492

CLEARINGHOUSE ACCESSION NUMBER: EA507621

PUBLICATION DATE: OCT 76

TITLE: LIGHTING . . . AND RELIGHTING

DESCRIPTOR: *LIGHTING DESIGN; *AUDITORIUMS; *GYMNASIUMS; *ENERGY CONSERVATION; *SCHOOL IMPROVEMENT; *COST EFFECTIVENESS; *ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: ILLUMINATION IN SCHOOL FACILITIES IS MORE THAN JUST A STANDARD, COMMONPLACE PRACTICE. AUDITORIUM LIGHTING AT THE NEW WALTER JOHNSON HIGH SCHOOL OF BETHESDA, MARYLAND, AND NEW LIGHTING IN THE GYMNASIUM AT THE VALLEY VIEW ELEMENTARY SCHOOL IN WADSWORTH, OHIO, HAVE RESULTED IN ENERGY SAVINGS. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS; 8-9

ACCESSION NUMBER: EJ146555

CLEARINGHOUSE ACCESSION NUMBER: EA507691

PUBLICATION DATE: NOV 76

TITLE: MEMO ON A DRIVE-IN CLINIC

DESCRIPTOR: *HIGHER EDUCATION; *COLLEGE PLANNING; *BUILDING OPERATION; *ENERGY CONSERVATION; *OPERATING EXPENSES; *EDUCATIONAL TECHNOLOGY; *BUILDING CONVERSION; *GYMNASIUMS

ISSUE: CIJE1977

ABSTRACT: NOTES FROM A MEETING OF PHYSICIAN PLANNERS AND ADMINISTRATORS ON PLANNING AND OPERATING EXPENSES AND UNIVERSITIES. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 51; 49: 3; 50-52

ACCESSION NUMBER: EJ147064

CLEARINGHOUSE ACCESSION NUMBER: SE51722

PUBLICATION DATE: JUL 76

TITLE: REPORT ON THE FOURTH APCA GOVERNMENT AFFAIRS SEMINAR

PERSONAL AUTHOR: BEERY, WILLIAMINA T.

DESCRIPTOR: *AIR POLLUTION CONTROL; *CONFERENCE REPORTS; *DECISION MAKING; *FEDERAL LEGISLATION; *POLICY FORMATION; *STANDARDS; *COURT LITIGATION; *ENERGY; *ENVIRONMENT; *ENVIRONMENTAL INFLUENCES; *CLEAN AIR ACT

ISSUE: CIJE1977

ABSTRACT: THIS REPORT PRESENTS CONDENSED VERSIONS OF THE PREPARED STATEMENTS OF THE PARTICIPANTS ON THE GENERAL TOPIC OF "THE CLEAN AIR ACT: ITS INFLUENCE ON GROWTH." SESSION TOPICS INCLUDED: "IMPACT OF FEDERAL POLICIES AND COURT DECISIONS," "CLEAN AIR AND A THRIVING SOCIETY," AND "ENERGY POLICIES: THE CLEAN AIR ACT." (BT)

JOURNAL CITATION: JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION; 26; 7: 635-642

ACCESSION NUMBER: EJ147068

CLEARINGHOUSE ACCESSION NUMBER: SE517237

PUBLICATION DATE: AUG 76

TITLE: NATIONAL ENVIRONMENTAL POLICY: COORDINATION OR CONFUSION?

PERSONAL AUTHOR: ADAMS, SEXTON; AND OTHERS

DESCRIPTOR: *ENERGY; *FUELS; *TECHNOLOGICAL ADVANCEMENT; *TECHNOLOGY; *ENVIRONMENT; *ENVIRONMENTAL INFLUENCES; *INDUSTRY; *RESEARCH; *UTILITIES; *ERDA

ISSUE: CIJE1977

ABSTRACT: THE FOSSIL ENERGY PROGRAM IS ATTEMPTING TO DEVELOP AND DEMONSTRATE, IN CONJUNCTION WITH INDUSTRY, THE TECHNOLOGY NECESSARY FOR ESTABLISHING A SYNTHETIC FUELS-FROM COAL INDUSTRY. TECHNOLOGIES DISCUSSED INCLUDE COAL LIQUEFACTION, HIGH AND LOW BTU GASIFICATION, ADVANCED POWER SYSTEMS, DIRECT COMBUSTION, MAGNETOHYDRODYNAMICS (MHD) AND PETROLEUM, NATURAL GAS, AND SHALE OIL RECOVERY. (BT)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 10; 8: 757-760

ACCESSION NUMBER: EJ147088

CLEARINGHOUSE ACCESSION NUMBER: SE517351

PUBLICATION DATE: 76

TITLE: EARTH YEAR--1976

PERSONAL AUTHOR: GUSTAFSON, JOHN A.

DESCRIPTOR: *ECONOMICS; *ENERGY; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *ETHICS; *ELEMENTARY SECONDARY EDUCATION; *LEARNING ACTIVITIES; *MORAL VALUES

ISSUE: CIJE1977

JOURNAL CITATION: NATURE STUDY; 30; 2: 2-3

ACCESSION NUMBER: EJ147162

CLEARINGHOUSE ACCESSION NUMBER: SE517502

PUBLICATION DATE: OCT 76

TITLE: AMERICA'S CENTURY III--THE ENGINEER'S OPPORTUNITY AND RESPONSIBILITY

PERSONAL AUTHOR: MILLER, CHERYL

DESCRIPTOR: *CONFERENCE REPORTS; *ENGINEERING EDUCATION; *MINORITY GROUPS; *CONFERENCES; *ENGINEERING; *ENERGY; *GOVERNMENT ROLE; *REPORTS

ISSUE: CIJE1977

ABSTRACT: PRESENTS HIGHLIGHTS OF THE ADDRESSES OF ARTHUR G. HANSEN, ROBERT C. SEARNS, JR., AND EDWARD R. KANE TO THE PLENARY SESSION OF THE ANNUAL CONFERENCE OF THE AMERICAN SOCIETY FOR ENGINEERING EDUCATION. TOPICS INCLUDE ENERGY, ECONOMICS, GOVERNMENTAL REGULATION, AND THE ROLE OF MINORITIES AND WOMEN IN ENGINEERING IN THE COMING CENTURY. (SL)

JOURNAL CITATION: ENGINEERING EDUCATION; 67; 1: 30-31

ACCESSION NUMBER: EJ147229

CLEARINGHOUSE ACCESSION NUMBER: S0505061

PUBLICATION DATE: NOV/DEC 76

TITLE: TEACHING ABOUT THE NUCLEAR POWER CONTROVERSY BY SIMULATION

PERSONAL AUTHOR: TANNER, THOMAS

DESCRIPTOR: *ENERGY; *SIMULATION; *TEACHING TECHNIQUES; *SOCIAL STUDIES; *CLASS ACTIVITIES; *ROLE PLAYING; *SOCIODRAMA; *DECISION MAKING SKILLS; *SKILL DEVELOPMENT; *SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: DESCRIBES A SIMPLE SIMULATION FOR TEACHING SECONDARY STUDENTS ABOUT NUCLEAR POWER AS A SOURCE OF ENERGY BY HAVING THEM ROLE PLAY VARIOUS INTEREST GROUPS. GAME RULES, INCLUDING DIVISION OF CLASS MEMBERS INTO FOUR INTEREST GROUPS, ARE DESCRIBED. THE AUTHOR SUGGESTS EIGHT REFERENCES THAT WOULD BE USEFUL FOR THE SIMULATION. (AUTHOR/DB)

JOURNAL CITATION: SOCIAL EDUCATION; 40; 7: 588-9

ACCESSION NUMBER: EJ147621

CLEARINGHOUSE ACCESSION NUMBER: CE505560

PUBLICATION DATE: NOV 76

TITLE: SOLAR ENERGY: THE STATE OF THE ART, PART 2

PERSONAL AUTHOR: MILLER, CHARLES D.; PINELLI, THOMAS E.

DESCRIPTOR: *SOLAR RADIATION; *ENERGY; *SCIENTIFIC CONCEPTS; *INDUSTRIAL ARTS; *RESEARCH DESIGN; *RESEARCH METHODOLOGY; *SCIENTIFIC RESEARCH; *RESEARCH UTILIZATION; *FEDERAL PROGRAMS; *TECHNOLOGY; *ENERGY RESEARCH AND

DEVELOPMENT ADMINISTRATION; ERDA

ISSUE: CIJE1977

ABSTRACT: DISCUSSES SOLAR THERMAL COLLECTORS, SOLAR THERMAL ELECTRIC POWER CONVERSION, PHOTOVOLTAIC POWER CONVERSION, AND WIND ENERGY CONVERSION, AND DISCUSSES IMPLICATIONS FOR INDUSTRIAL ARTS. (TA)

JOURNAL CITATION: MAN/SOCIETY/TECHNOLOGY; 36; 2; 48-56

ACCESSION NUMBER: EJ148036

CLEARINGHOUSE ACCESSION NUMBER: EA507731

PUBLICATION DATE: NOV 76

TITLE: SPECIAL REPORT: ENERGY

PERSONAL AUTHOR: GUSCADER, ROB

DESCRIPTOR: *ENERGY CONSERVATION; *BUILDING DESIGN; *BUILDING SYSTEMS; *SYSTEMS APPROACH; *SOLAR RADIATION; *BUILDING INNOVATION; *LIFE CYCLE COSTING; *PERFORMANCE SPECIFICATIONS; *ELECTRICAL SYSTEMS

ISSUE: CIJE1977

ABSTRACT: PRESENTLY AVAILABLE DESIGN TECHNIQUES, TECHNOLOGIES, AND MANAGEMENT PRACTICES CAN SIGNIFICANTLY REDUCE THE ENERGY REQUIREMENTS OF NEW BUILDINGS. A TWO-PART SECTION DISCUSSES SOLUTIONS TO THE ENERGY PROBLEM IN THE COMMERCIAL, INSTITUTIONAL, AND INDUSTRIAL FIELDS. (AUTHOR/MLF)

JOURNAL CITATION: BUILDING DESIGN AND CONSTRUCTION; 17; 11; 40-46

ACCESSION NUMBER: EJ148069

CLEARINGHOUSE ACCESSION NUMBER: EA507765

PUBLICATION DATE: DEC 76

TITLE: THE ENERGY CRISIS: A CONTINUING DISASTER

PERSONAL AUTHOR: SAVAGE, DAVID

DESCRIPTOR: *ENERGY CONSERVATION; *EDUCATIONAL FINANCE; *SCHOOL BUILDINGS; *ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: TO SCHOOL BUSINESS MANAGERS, THE ENERGY CRISIS IS A CONTINUING ECONOMIC DISASTER AS ENERGY COSTS CONTINUE TO CLIMB AND SCHOOLS ARE WITHOUT MONEY TO MAKE NECESSARY RENOVATIONS TO REDUCE ENERGY CONSUMPTION. (AUTHOR/IRT)

JOURNAL CITATION: PHI DELTA KAPPAN; 58; 4; 393

ACCESSION NUMBER: EJ148076

CLEARINGHOUSE ACCESSION NUMBER: EA507772

PUBLICATION DATE: DEC 76

TITLE: SOUTH JERSEY SCHOOL SAVES ENERGY

DESCRIPTOR: *ENERGY CONSERVATION; *LIGHTING; *COST EFFECTIVENESS; *GUIDES; *SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: AT WEST DEPTFORD HIGH SCHOOL IN NEW JERSEY, A GROUP OF STUDENTS, LED BY THEIR TEACHER HAVE DEVELOPED A NUMBER OF SOUND ENERGY-CONSERVING TECHNIQUES THAT ADD UP TO SUBSTANTIAL SAVINGS FOR THE SCHOOL BUDGET. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS; 8-9

ACCESSION NUMBER: EJ148079

CLEARINGHOUSE ACCESSION NUMBER: EA507775

PUBLICATION DATE: NOV 76

TITLE: SAVINGS BEGIN WITH AN ENERGY AUDIT

PERSONAL AUTHOR: VANDERWEIL, GARY

DESCRIPTOR: *ENERGY CONSERVATION; *FACILITY INVENTORY; *COST EFFECTIVENESS; *MEASUREMENT TECHNIQUES; *FUEL CONSUMPTION; *ELECTRICAL SYSTEMS; *BUILDING IMPROVEMENT

ISSUE: CIJE1977

ABSTRACT: THE AUDIT ESTABLISHES HOW MUCH AND WHAT KIND OF ENERGY IS CONSUMED BY EACH ENERGY USER IN A BUILDING. THIS IDENTIFIES THE MOST COST-EFFECTIVE CHANGES TO MAXIMIZE THE PERFORMANCE OF THE EXISTING MECHANICAL AND ELECTRICAL SYSTEMS AND THE BUILDING SKIN. AVAILABLE FROM CONSULTING ENGINEER, 1301 S. GROVE AVENUE, BARRINGTON, ILLINOIS 60010, \$15.00 PER YEAR. (AUTHOR/MLF)

JOURNAL CITATION: CONSULTING ENGINEER; 47; 5; 88-91

ACCESSION NUMBER: EJ148091

CLEARINGHOUSE ACCESSION NUMBER: EA507787

PUBLICATION DATE: NOV 76

TITLE: ENERGY CONSERVATION FEATURED IN ILLINOIS HIGH SCHOOL

DESCRIPTOR: *ENERGY CONSERVATION; *HEAT RECOVERY; *ELECTRICAL SYSTEMS; *CLIMATE CONTROL; *SECONDARY EDUCATION; *HIGH SCHOOL DESIGN; *AIR CONDITIONING EQUIPMENT

ISSUE: CIJE1977

ABSTRACT: THE WILLIAM FRENCH HIGH SCHOOL IN PALATINE, ILLINOIS, SCHEDULED TO OPEN IN 1977, IS BEING BUILT WITH ENERGY CONSERVATION UPPERMOST IN MIND. IN THIS SYSTEM, 70 HEAT PUMPS WILL HEAT AND COOL 300,000 SQUARE FEET OF EDUCATIONAL FACILITIES. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS; 4-7

ACCESSION NUMBER: EJ148562

CLEARINGHOUSE ACCESSION NUMBER: IR504175

PUBLICATION DATE: DEC 76

TITLE: ENERGY SAVING ON MILE HIGH CAMPUS

PERSONAL AUTHOR: MITCHELL, ELIZABETH PRYSE

DESCRIPTOR: *LIBRARY FACILITIES; *UNIVERSITY LIBRARIES; *BUILDING DESIGN; *ENERGY CONSERVATION; *SHARED FACILITIES; *COLLEGE LIBRARIES; *COLORADO (DENVER); *AURARIA LEARNING RESOURCES CENTER

ISSUE: CIJE1977

ABSTRACT: DESCRIBES THE ENERGY-SAVING FEATURES OF THE AURARIA LEARNING RESOURCES CENTER, A FACILITY SHARED BY THREE INSTITUTIONS: THE COMMUNITY COLLEGE OF DENVER, METROPOLITAN STATE COLLEGE, AND THE UNIVERSITY OF DENVER. (PF)

JOURNAL CITATION: AMERICAN LIBRARIES; 7; 11; 676-7

ACCESSION NUMBER: EJ148774

CLEARINGHOUSE ACCESSION NUMBER: SF517590

PUBLICATION DATE: OCT 76

TITLE: ENERGY IN FOOD PRODUCTION

PERSONAL AUTHOR: PIMENTEL, DAVID; AND OTHERS

DESCRIPTOR: *ENERGY; *FOOD; *OVERPOPULATION; *POPULATION GROWTH; *POPULATION TRENDS; *WORLD PROBLEMS; *BIRTH RATE; *FUTURES (OF SOCIETY)

ISSUE: CIJE1977

ABSTRACT: REVIEWED ARE TRENDS IN BIRTH RATES AND FOOD PRODUCTION ENERGY REQUIREMENTS. CONCLUDES THAT CONTROL OF HUMAN NUMBERS WOULD PREVENT A THREATENED SERIOUS FOOD SHORTAGE. (SL)

JOURNAL CITATION: AMERICAN BIOLOGY TEACHER; 38; 7; 402-404

ACCESSION NUMBER: EJ148789

CLEARINGHOUSE ACCESSION NUMBER: SE517605

PUBLICATION DATE: OCT 76

TITLE: STOCKTON STATE COLLEGE'S ENERGY HOUSE

PERSONAL AUTHOR: TAYLOR, HAROLD E.

DESCRIPTOR: *COLLEGE SCIENCE; *ENERGY; *PHYSICS; *SCIENCE EXPERIMENTS; *STUDENT PROJECTS; *HIGHER EDUCATION; *SCIENCE EDUCATION; *SCIENCE PROJECTS; *STOCKTON STATE COLLEGE

ISSUE: CIJE1977

ABSTRACT: DISCUSSES A PROJECT IN WHICH COLLEGE STUDENTS EQUIPPED A HOUSE WITH THREE DIFFERENT TYPES OF SOLAR ENERGY COLLECTORS AND TWO VERTICAL AXIS WINDMILLS. (MLH)

JOURNAL CITATION: PHYSICS TEACHER; 14; 7; 446-449

ACCESSION NUMBER: EJ148807

CLEARINGHOUSE ACCESSION NUMBER: SE517625

PUBLICATION DATE: OCT 76

TITLE: STATE & SOCIETY: PRESIDENTIAL CANDIDATES ANSWER QUERIES ON SCIENCE POLICY

DESCRIPTOR: *FEDERAL AID; *GOVERNMENT ROLE; *POLICY FORMATION; *POLITICAL ISSUES; *SCIENCE; *ENERGY; *SCIENCE CONSULTANTS; *SCIENCE EDUCATION; *CARTER (JIMMY); *FORD (GERALD)

ISSUE: CIJE1977

ABSTRACT: PRESENTS VIEWS OF GERALD FORD AND JIMMY CARTER ON THE ROLE OF SCIENCE ADVISORS IN THE EXECUTIVE OFFICE OF THE PRESIDENT, NATIONAL ENERGY NEEDS AND THE NUCLEAR POWER PROGRAM, AND FEDERAL SUPPORT FOR BASIC AND APPLIED SCIENCE. (MLH)

JOURNAL CITATION: PHYSICS TODAY; 29; 10; 61-63

ACCESSION NUMBER: EJ148826

CLEARINGHOUSE ACCESSION NUMBER: SE517644

PUBLICATION DATE: SEP 76

TITLE: SIMPLE EXPERIMENTS ON THE USE OF SOLAR ENERGY

PERSONAL AUTHOR: VELLA, G. J.; GOLDSMID, H. J.

DESCRIPTOR: *ENERGY; *INSTRUCTIONAL MATERIALS; *PHYSICS; *SCIENCE EXPERIMENTS; *SECONDARY SCHOOL SCIENCE; *SOLAR RADIATION; *SCIENCE EDUCATION; *SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: DESCRIBES 9 SOLAR ENERGY EXPERIMENTS THAT CAN BE USED IN SECONDARY SCHOOLS: FLAT-PLATE COLLECTOR, SOLAR THERMOELECTRIC GENERATOR, SIMPLE CONCENTRATORS, SOLAR CELL, AND NATURAL STORAGE OF SOLAR ENERGY. (MLH)

JOURNAL CITATION: PHYSICS EDUCATION; 11; 6: 413-416

ACCESSION NUMBER: EJ148829

CLEARINGHOUSE ACCESSION NUMBER: SE517647

PUBLICATION DATE: SEP 76

TITLE: ENERGY PROJECTS IN UNDERGRADUATE PHYSICS

PERSONAL AUTHOR: MORGAN, R.; AND OTHERS

DESCRIPTOR: *COLLEGE SCIENCE; *ENERGY; *PHYSICS; *SOLAR RADIATION; *STUDENT PROJECTS; *HEAT; *HIGHER EDUCATION; *LABORATORY EXPERIMENTS; *SCIENCE EDUCATION; *WIND ENERGY

ISSUE: CIJE1977

ABSTRACT: DESCRIBES A SET OF STUDENT PROJECTS, EACH INVOLVING ABOUT 240 HOURS OF LABORATORY TIME, COVERING THE FOLLOWING TOPICS: WIND POWER MONITORING, WIND GENERATOR DESIGN, SOLAR POWER, AND THE HEAT PUMP. (MLH)

JOURNAL CITATION: PHYSICS EDUCATION; 11; 6: 434-437

ACCESSION NUMBER: EJ148853

CLEARINGHOUSE ACCESSION NUMBER: SE517710

PUBLICATION DATE: NOV 76

TITLE: THE TURBULENT SUN

PERSONAL AUTHOR: LINDSAY, SALLY, ED.

DESCRIPTOR: *ASTRONOMY; *ENERGY; *NATURAL SCIENCES; *SPACE SCIENCE; *SCIENTIFIC RESEARCH; *INSTRUCTIONAL MATERIALS; *PHYSICS; *RESEARCH; *SOLAR RADIATION; *SUN

ISSUE: CIJE1977

ABSTRACT: SIX ARTICLES REVIEW CURRENT UNDERSTANDING AND RESEARCH IN SOLAR PHYSICS. INCLUDED ARE TOPICS ON SUNSPOTS, THE CORONA, SOLAR FLARES, SOLAR WAVES, AND SOLAR-ENERGY GENERATION. ALSO INCLUDED IS A RESUME OF PHYSICAL DATA RELATING TO THE SUN. (SL)

JOURNAL CITATION: NATURAL HISTORY; 85; 9: 54-86

ACCESSION NUMBER: EJ150176

CLEARINGHOUSE ACCESSION NUMBER: EA507844

PUBLICATION DATE: DEC 76

TITLE: BOLD DESIGN PAYS OFF ON ENERGY

DESCRIPTOR: *ENERGY CONSERVATION; *BUILDING DESIGN; *MUSEUMS; *THERMAL ENVIRONMENT; *COST EFFECTIVENESS; *HIGHER EDUCATION; *FLORIDA STATE MUSEUM; *UNIVERSITY OF FLORIDA; *UNDERGROUND BUILDINGS

ISSUE: CIJE1977

ABSTRACT: EARTH BERMS AND BURYING THE BUILDING INTO THE HILLSIDE HELP INSULATE THE FLORIDA STATE MUSEUM AND MAKE IT OPERATIONALLY THE MOST ECONOMICAL BUILDING ON THE CAMPUS. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 49; 4: 26-29

ACCESSION NUMBER: EJ150180

CLEARINGHOUSE ACCESSION NUMBER: EA507848

PUBLICATION DATE: DEC 76

TITLE: ENERGY ETHICS AND SCHOOL DOLLARS

PERSONAL AUTHOR: CURZIE, WILLIAM D., JR.

DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION; *ETHICS; *ADMINISTRATOR RESPONSIBILITY; *SCHOOL DISTRICT SPENDING; *CONSERVATION EDUCATION; *ELEMENTARY SECONDARY EDUCATION; *CHECK LISTS

ISSUE: CIJE1977

ABSTRACT: A CHECKLIST OF PRACTICES IS INCLUDED WITH THE ADMONITION THAT SCHOOLS HAVE A MORAL DUTY TO TEACH AND PRACTICE ENERGY CONSERVATION. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 49; 4: 38-40

ACCESSION NUMBER: EJ150181

CLEARINGHOUSE ACCESSION NUMBER: EA507849

PUBLICATION DATE: DEC 76

TITLE: BETTER SCHOOL LIGHTING FOR LESS ENERGY COST

PERSONAL AUTHOR: ANDERSON, HERBERT A.

DESCRIPTOR: *ENERGY CONSERVATION; *LIGHTING DESIGN; *ILLUMINATION LEVELS; *LIGHTING; *IMPROVEMENT; *FACILITY GUIDELINES; *ELEMENTARY SECONDARY EDUCATION; *ELECTRICAL SYSTEMS; *COSTS

ISSUE: CIJE1977

ABSTRACT: ILLUMINATION LEVELS SHOULD VARY THROUGHOUT A SCHOOL, AND NEW LOWER-WATTAGE LAMPS CAN HELP CUT ENERGY COSTS. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 49; 4: 42-43

ACCESSION NUMBER: EJ150208

CLEARINGHOUSE ACCESSION NUMBER: EA507879

PUBLICATION DATE: NOV-DEC 76

TITLE: ENERGY CONSERVATION THROUGH RATIONAL ARCHITECTURE AND PLANNING

PERSONAL AUTHOR: BRUBAKER, C. WILLIAM

DESCRIPTOR: *ENERGY CONSERVATION; *SOLAR RADIATION; *PLANNING; *ENVIRONMENTAL INFLUENCES; *FUTURES (OF SOCIETY); *CLIMATIC FACTORS; *BUILDING DESIGN; *LANDSCAPING; *BUILDING CONVERSION; *CLIMATE CONTROL

ISSUE: CIJE1977

ABSTRACT: BUILDINGS CAN BE DESIGNED IN HARMONY WITH THE NATURAL ENVIRONMENT, AND NEW TECHNIQUES OF "ACTIVE" SOLAR DESIGN EXIST TO COLLECT AND USE SOLAR ENERGY FOR SPACE HEATING AND COOLING. PRESERVATION AND REUSE OF EXISTING BUILDINGS AND NEIGHBORHOODS ARE OTHER WAYS TO CONSERVE ENERGY. (AUTHOR/MLF)

JOURNAL CITATION: CEFP JOURNAL; 14; 6: 4-6,22

ACCESSION NUMBER: EJ150209

CLEARINGHOUSE ACCESSION NUMBER: EA507880

PUBLICATION DATE: NOV-DEC 76

TITLE: COMMUNITY COLLEGE OF DENVER, NORTH CAMPUS, DENVER, COLORADO

PERSONAL AUTHOR: ANDERSON, JOHN D.

DESCRIPTOR: *ENERGY CONSERVATION; *SOLAR RADIATION; *HEATING; *HEAT RECOVERY; *COMMUNITY COLLEGES; *COLLEGE BUILDINGS; *BUILDING DESIGN; *MECHANICAL EQUIPMENT; *BUILDING INNOVATION; *COLORADO (DENVER)

ISSUE: CIJE1977

ABSTRACT: THE SOON-TO-BE-COMPLETED NORTH CAMPUS OF THE COMMUNITY COLLEGE OF DENVER DEMONSTRATES A CONVICTION ON THE PART OF THE STATE AND THE DESIGN TEAM THAT THE USE OF SOLAR ENERGY IS ECONOMICALLY AND TECHNOLOGICALLY AND ALTERNATIVE TO THE CONTINUED CONSUMPTION OF FOSSIL FUEL. (AUTHOR/MLF)

JOURNAL CITATION: CEFP JOURNAL; 14; 6: 8-9

ACCESSION NUMBER: EJ150210

CLEARINGHOUSE ACCESSION NUMBER: EA507881

PUBLICATION DATE: NOV-DEC 76

TITLE: PARKER JUNIOR HIGH SCHOOL, DENVER, COLORADO

PERSONAL AUTHOR: MORE, DONALD H.

DESCRIPTOR: *ENERGY CONSERVATION; *SOLAR RADIATION; *BUILDING DESIGN; *HEATING; *JUNIOR HIGH SCHOOLS; *COST EFFECTIVENESS; *BUILDING INNOVATION; *COLORADO (DENVER)

ISSUE: CIJE1977

ABSTRACT: A SOLAR HEATING SYSTEM COMBINED WITH INCREASED THERMAL INSULATION AT PARKER JUNIOR HIGH SCHOOL HAS RESULTED IN A SAVINGS OF ABOUT 75 PERCENT IN ENERGY USE. (AUTHOR/MLF)

JOURNAL CITATION: CEFP JOURNAL; 14; 6: 10-11

ACCESSION NUMBER: EJ150211

CLEARINGHOUSE ACCESSION NUMBER: EA507882

PUBLICATION DATE: NOV-DEC 76

TITLE: NISKEY LAKE MIDDLE SCHOOL, ATLANTA, GEORGIA

PERSONAL AUTHOR: STEVENS, PRESTON, JR.

DESCRIPTOR: *ENERGY CONSERVATION; *SOLAR RADIATION; *BUILDING DESIGN; *CLIMATE CONTROL; *MIDDLE SCHOOLS; *MECHANICAL EQUIPMENT; *SYSTEMS APPROACH; *BUILDING INNOVATION; *GEORGIA (ATLANTA)

ISSUE: CIJE1977

ABSTRACT: THE PROPOSED NISKEY LAKE MIDDLE SCHOOL IS DESIGNED TO HAVE SOLAR HEATING IN HALF OF THE BUILDING, SOLAR WATER HEATING FOR THE ENTIRE FACILITY, AND SOLAR COOLING FOR THE ADMINISTRATION AREA. (AUTHOR/MLF)

JOURNAL CITATION: CEFP JOURNAL; 14; 6: 13-15

ACCESSION NUMBER: EJ150212

CLEARINGHOUSE ACCESSION NUMBER: EA507883

PUBLICATION DATE: NOV-DEC 76

TITLE: GEORGE A. TOWNS ELEMENTARY SCHOOL, ATLANTA, GEORGIA

PERSONAL AUTHOR: BURT, RALPH H.

DESCRIPTOR: *ENERGY CONSERVATION; *SOLAR RADIATION;
*BUILDING IMPROVEMENT; *DEMONSTRATION PROJECTS; *BUILDING
INNOVATION; BUILDING DESIGN; ELEMENTARY EDUCATION; GEORGIA
(ATLANTA)

ISSUE: CIJE1977

ABSTRACT: A PROJECT TESTING SOLAR HEATING AND COOLING IN AN
EXISTING BUILDING, THE GEORGE A. TOWNS ELEMENTARY SCHOOL, IS
INTENDED TO PROVIDE INFORMATION ON SYSTEM DESIGN AND
PERFORMANCE, ALLOW THE IDENTIFICATION AND CORRECTION OF
PROBLEMS ENCOUNTERED IN INSTALLING LARGE UNITS, AND GAUGE
COMMUNITY/USER REACTION TO SOLAR EQUIPMENT. (AUTHOR/MLF)

JOURNAL CITATION: CEFP JOURNAL; 14; 6; 16-17

ACCESSION NUMBER: EJ150213

CLEARINGHOUSE ACCESSION NUMBER: EA507884

PUBLICATION DATE: NOV-DEC 76

TITLE: SELECTING SOLAR EQUIPMENT

PERSONAL AUTHOR: TRAGERT, WILLIAM E.; WHITE, JONATHAN

DESCRIPTOR: *ENERGY CONSERVATION; *SOLAR RADIATION;
*MECHANICAL EQUIPMENT; *PURCHASING; *PERFORMANCE
SPECIFICATIONS; EQUIPMENT STANDARDS; GUIDELINES

ISSUE: CIJE1977

ABSTRACT: PRINCIPLES OF SOLAR ENERGY COLLECTORS ARE
SUMMARIZED. (MLF)

JOURNAL CITATION: CEFP JOURNAL; 14; 6; 18-19

ACCESSION NUMBER: EJ150214

CLEARINGHOUSE ACCESSION NUMBER: EA507885

PUBLICATION DATE: NOV-DEC 76

TITLE: INFORMATION SOURCES ON SOLAR ENERGY

DESCRIPTOR: *ENERGY CONSERVATION; *SOLAR RADIATION;
*INFORMATION SOURCES

ISSUE: CIJE1977

ABSTRACT: LISTS PUBLICATIONS AND DEMONSTRATION PROJECTS
ABOUT, AND UNIVERSITIES CONDUCTING RESEARCH AND EDUCATIONAL
PROGRAMS RELATED TO, THE USE OF SOLAR ENERGY. (MLF)

JOURNAL CITATION: CEFP JOURNAL; 14; 6; 20

ACCESSION NUMBER: EJ150543

CLEARINGHOUSE ACCESSION NUMBER: SE517419

PUBLICATION DATE: SEP 76

TITLE: ENERGY: THE U.S. AT THE CROSSROADS

DESCRIPTOR: *ENERGY; *SOLAR RADIATION; *TECHNOLOGY;
DEPLETED RESOURCES; ECONOMICS; ENERGY CONSERVATION;
ENVIRONMENTAL INFLUENCES; *RENEWABLE ENERGY SOURCES; ERDA;
SMACOB

ISSUE: CIJE1977

ABSTRACT: THIS DISCUSSION DETAILS RECENT DEVELOPMENTS IN
THE TECHNOLOGY OF RENEWABLE SOURCES OF ENERGY, SUCH AS:
SOLAR OCEAN-THERMAL, TIDES, WIND, GEOTHERMAL AND HYDROGEN.
OPTIONS AVAILABLE TO THE UNITED STATES IN THE TRANSITION
FROM NON-RENEWABLE TO RENEWABLE SOURCES OF ENERGY ARE
IDENTIFIED AND PROSPECTS FOR THE FUTURE ARE OFFERED. (BT)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 10;
9; 854-859

ACCESSION NUMBER: EJ150547

CLEARINGHOUSE ACCESSION NUMBER: SE517555

PUBLICATION DATE: OCT 76

TITLE: THE FEDERAL ENERGY POLICY

PERSONAL AUTHOR: NOVICK, SHELDON

DESCRIPTOR: *ENERGY; *FEDERAL GOVERNMENT; *FUELS;
*POLITICS; *POLICY FORMATION; ENERGY CONSERVATION; FUEL
CONSUMPTION; PETROLEUM INDUSTRY; PUBLIC POLICY; ENERGY
POLICY

ISSUE: CIJE1977

ABSTRACT: THERE IS NO FEDERAL ENERGY POLICY. THERE IS A
FUEL USE POLICY OF SORTS, BUT THAT POLICY IS RELATED AS MUCH
TO FOREIGN POLICY AS TO DOMESTIC NEEDS, WITH THE UNITED
STATES PUBLIC PAYING THE LARGE BILL. NEITHER PRESIDENTIAL
CANDIDATE HAS YET OFFERED A PLAN FOR A COHERENT ENERGY
POLICY. (EDITOR/MT)

JOURNAL CITATION: ENVIRONMENT; 18; 8; 17-20

ACCESSION NUMBER: EJ150579

CLEARINGHOUSE ACCESSION NUMBER: SE517700

PUBLICATION DATE: OCT 76

TITLE: ECO-CHEM

PERSONAL AUTHOR: CAMPBELL, J. A.

DESCRIPTOR: *CHEMISTRY; *COLLEGE SCIENCE; *INSTRUCTIONAL

MATERIALS; CHEMICAL ANALYSIS; ENERGY; HIGHER EDUCATION;
SCIENCE EDUCATION

ISSUE: CIJE1977

ABSTRACT: PRESENTS FOUR QUESTIONS AND ANSWERS ON CHEMICAL
TOPICS, INCLUDING THE PH OF RAINWATER, THE COMPOSITION OF
MOON ROCKS, AND THE COMPARISON OF NUCLEAR AND BURNING ENERGY
AVAILABLE FROM COAL. (MLH)

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 53; 10;
642

ACCESSION NUMBER: EJ150642

CLEARINGHOUSE ACCESSION NUMBER: SE517823

PUBLICATION DATE: NOV 76

TITLE: PARTIAL DERIVATIVES, THE ENERGY CRISIS, AND URBAN
TRANSPORTATION: CALCULUS FOR CONCERNED CITIZENS

PERSONAL AUTHOR: BENT, HENRY A.

DESCRIPTOR: *CALCULUS; *ENERGY; *INSTRUCTION; *MATHEMATICS;
*MATHEMATICS INSTRUCTION; HIGHER EDUCATION; PHYSICS;
PRACTICAL MATHEMATICS; SCIENCE EDUCATION; TRANSPORTATION

ISSUE: CIJE1977

ABSTRACT: PRESENTED IS A METHOD UTILIZING PARTIAL
DERIVATIVES FOR DETERMINING THE ENERGY SAVED PER DOLLAR BY
SUBSTITUTING BICYCLING FOR DRIVING A CAR WHILE NOT REDUCING
JOBS DEPENDENT UPON THE AUTO INDUSTRY. (SL)

JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS; 44; 11;
1070-1072

ACCESSION NUMBER: EJ150707

CLEARINGHOUSE ACCESSION NUMBER: SE517967

PUBLICATION DATE: NOV-DEC 76

TITLE: ENERGY FOR TODAY AND TOMORROW WITH ENERGY EAGLE

PERSONAL AUTHOR: MESSER, MELANIE B.

DESCRIPTOR: *ELEMENTARY SCHOOL SCIENCE; *ENERGY;
*ENVIRONMENTAL EDUCATION; *FIELD TRIPS; *GAMES; ELEMENTARY
SECONDARY EDUCATION; ENVIRONMENT; OUTDOOR EDUCATION; SCIENCE
EDUCATION; SCIENCE ACTIVITIES

ISSUE: CIJE1977

ABSTRACT: DESCRIBED IS AN ENERGY AWARENESS MODULE UTILIZED
IN THE SAN DIEGO (CALIFORNIA) COUNTY SCHOOLS, TO MAKE
STUDENTS MORE AWARE OF ENERGY USE IN THE LOCAL COMMUNITY.
ACTIVITIES INCLUDE AN ENERGY GAME AND ENERGY WALKS IN THE
SCHOOL AND IN THE COMMUNITY. (SL)

JOURNAL CITATION: SCIENCE AND CHILDREN; 14; 3; 18-19,28

ACCESSION NUMBER: EJ151328

CLEARINGHOUSE ACCESSION NUMBER: EA507893

PUBLICATION DATE: JAN 77

TITLE: FOUR WAYS TO GET READY FOR THE BIG ENERGY TROUBLES
THAT LOOM FOR SCHOOLS

DESCRIPTOR: *ENERGY CONSERVATION; *SCHOOL BUILDINGS;
ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1977

JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL; 164; 1;
32-33

ACCESSION NUMBER: EJ151338

CLEARINGHOUSE ACCESSION NUMBER: EA507903

PUBLICATION DATE: JAN 77

TITLE: HEAT RECOVERY SYSTEM DESIGNED FOR ALTERNATIVE
EDUCATION

DESCRIPTOR: *EDUCATIONAL ALTERNATIVES; *HEAT RECOVERY;
*ENERGY CONSERVATION; *SCHOOL DESIGN; *MOVABLE PARTITIONS;
SECONDARY EDUCATION; FLEXIBLE FACILITIES; MODULAR BUILDING
DESIGN; OPEN PLAN SCHOOLS; NEW JERSEY

ISSUE: CIJE1977

ABSTRACT: THE DESIGN OF PISCATAWAY HIGH SCHOOL COMBINES
DEMOUNTABLE WALLS AND A HEAT RECOVERY SYSTEM FOR COOLING AND
HEATING. (MLF)

JOURNAL CITATION: MODERN SCHOOLS; 4-7

ACCESSION NUMBER: EJ151339

CLEARINGHOUSE ACCESSION NUMBER: SE517398

PUBLICATION DATE: 76

TITLE: THE OCEAN FOOD AND ENERGY FARM PROJECT

PERSONAL AUTHOR: WILCOX, HOWARD A.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL RESEARCH; *FOOD; *OCEAN
ENGINEERING; ECONOMIC FACTORS; ENVIRONMENT; POLLUTION; SOLAR
RADIATION; TECHNOLOGY; *OCEAN FARMING; AQUACULTURE; KELP;
MARINE FARMING

ISSUE: CIJE1977

ABSTRACT: THIS THREE-PHASE, 15-YEAR PROJECT IS DESIGNED TO EXPLORE AND DEVELOP THE ABILITY TO RAISE THE GRAY CALIFORNIA Kelp AND OTHER MARINE ORGANISMS FOR FOOD, FUELS, FERTILIZERS AND PLASTICS IN THE TEMPERATE AND TROPICAL OCEANS. THE NEEDED TECHNOLOGY IS ESTABLISHED, BUT THE ECONOMIC FEASIBILITY IS YET TO BE DETERMINED. (BY)

JOURNAL CITATION: JOURNAL OF MARINE EDUCATION; 16-19

ACCESSION NUMBER: EJ151866

CLEARINGHOUSE ACCESSION NUMBER: SE517815

PUBLICATION DATE: 76

TITLE: FUSION REACTOR TECHNOLOGY

PERSONAL AUTHOR: JOHNSON, ERNEST F.

DESCRIPTOR: *COURSE DESCRIPTIONS; *ENGINEERING; *ENGINEERING EDUCATION; *HIGHER EDUCATION; *NUCLEAR PHYSICS; *CURRICULUM; *ENERGY; *GRADUATE STUDY; *SCIENCE EDUCATION; *FUSION REACTORS

ISSUE: CIJE1977

ABSTRACT: DESCRIBES A CHEMICAL ENGINEERING COURSE IN NUCLEAR FUSION REACTOR SYSTEMS; INCLUDES PLASMA PROBLEMS, FUEL CYCLES, MATERIALS, BLANKET PROBLEMS, REACTOR CONTROL, ENVIRONMENTAL PROBLEMS. (NLM)

JOURNAL CITATION: CHEMICAL ENGINEERING EDUCATION; 10; 4: 172-174

ACCESSION NUMBER: EJ151928

CLEARINGHOUSE ACCESSION NUMBER: SE517930

PUBLICATION DATE: DEC 76

TITLE: ENERGETIC LESSONS ON ENERGY

PERSONAL AUTHOR: SOLANA, TERRY

DESCRIPTOR: *ELEMENTARY SCHOOL MATHEMATICS; *ENERGY CONSERVATION; *INSTRUCTIONS; *ELEMENTARY SECONDARY EDUCATION; *ENVIRONMENTAL EDUCATION; *LEARNING ACTIVITIES; *MATHEMATICS EDUCATION

ISSUE: CIJE1977

ABSTRACT: MATHEMATICAL ACTIVITIES ARE DESCRIBED WHICH FOCUS ON CARS AND GASOLINE CONSUMPTION. (DY)

JOURNAL CITATION: ARITHMETIC TEACHER; 23; 8: 639-641

ACCESSION NUMBER: EJ152031

CLEARINGHOUSE ACCESSION NUMBER: SE518067

PUBLICATION DATE: DEC 76

TITLE: ASSOCIATION NEWS: AN ENERGY-RICH CURRICULUM--HELP US EVALUATE IT

PERSONAL AUTHOR: FOWLER, JOHN M.

DESCRIPTOR: *ENERGY; *ELEMENTARY SCHOOL SCIENCE; *INSTRUCTIONAL MATERIALS; *SECONDARY SCHOOL SCIENCE; *ENVIRONMENTAL EDUCATION; *ELEMENTARY SECONDARY EDUCATION; *SCIENCE EDUCATION

ISSUE: CIJE1977

ABSTRACT: DESCRIBED ARE SIX INTERDISCIPLINARY ENERGY INSTRUCTIONAL PACKETS DEVELOPED BY THE NATIONAL SCIENCE TEACHERS ASSOCIATION. PACKETS ARE DESIGNED TO COMPLEMENT EXISTING CURRICULA AND INCLUDE TOPICS FOR ELEMENTARY AND SECONDARY LEVELS. (SL)

JOURNAL CITATION: SCIENCE TEACHER; 43; 9: 13-14

ACCESSION NUMBER: EJ152048

CLEARINGHOUSE ACCESSION NUMBER: SE518085

PUBLICATION DATE: DEC 76

TITLE: RESIDENTIAL ENERGY USE ALTERNATIVES: 1976-2000

PERSONAL AUTHOR: HIRST, ERIC

DESCRIPTOR: *CONSUMER ECONOMICS; *ENERGY CONSERVATION; *FUEL CONSUMPTION; *PREDICTIONS; *RESEARCH; *EXPENDITURES; *ECONOMIC FACTORS; *ENERGY; *HOUSING PATTERNS

ISSUE: CIJE1977

ABSTRACT: ANALYZES CHANGES IN HOUSEHOLD FORMATION AND HOUSING CHOICES, FUEL RATES, PER CAPITA INCOME, TECHNOLOGICAL DEVELOPMENTS, AND EQUIPMENT EFFICIENCIES TO SHOW THAT RESIDENTIAL ENERGY USE GROWTH COULD REACH ZERO BY THE YEAR 2000. (NLM)

JOURNAL CITATION: SCIENCE; 194; 4271: 1247-1252

ACCESSION NUMBER: EJ152148

CLEARINGHOUSE ACCESSION NUMBER: SE518186

PUBLICATION DATE: DEC 76

TITLE: DISARMAMENT, SECURITY AND DEVELOPMENT

DESCRIPTOR: *CONFERENCE REPORTS; *CONFERENCES; *POLITICAL ISSUES; *SCIENTIFIC ENTERPRISE; *WORLD AFFAIRS; *WORLD PROBLEMS; *ENERGY; *GENETICS; *INTERNATIONAL PROGRAMS; *SCIENCE EDUCATION; *ARMS CONTROL

ISSUE: CIJE1977

ABSTRACT: PROVIDER IS A SUMMARY OF THE 26TH PUGHASH CONFERENCE ON SCIENCE AND WORLD AFFAIRS HELD AUGUST 26-31, 1976, IN MUMHLHAUSEN, EAST GERMANY. WORLD PROBLEMS DISCUSSED INCLUDED: ARMS LIMITATIONS, MILITARY RESEARCH AND DEVELOPMENT, NUCLEAR TEST BAN, ALTERNATIVE ENERGY SOURCES, AND GENETIC ENGINEERING. (SL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTIST; 32; 10: 28-33

ACCESSION NUMBER: EJ152150

CLEARINGHOUSE ACCESSION NUMBER: SE518188

PUBLICATION DATE: DEC 76

TITLE: NO NATION ALONE

PERSONAL AUTHOR: CHASE, STUART

DESCRIPTOR: *DISARMAMENT; *ENVIRONMENT; *NATURAL RESOURCES; *POLITICAL ISSUES; *WORLD PROBLEMS; *COMMUNICATIONS; *ENERGY; *HEALTH; *TRANSPORTATION

ISSUE: CIJE1977

ABSTRACT: SUMMARIZED ARE 13 MAJOR PROBLEMS FACING EVERY COUNTRY IN THE WORLD TODAY. PROBLEMS INCLUDE: DISARMAMENT, POPULATION EXPLOSION, POLLUTION, ENERGY, CONSERVATION OF NATURAL RESOURCES, TRANSPORTATION, COMMUNICATIONS, AND HEALTH. (SL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTIST; 32; 10: 42-43

ACCESSION NUMBER: EJ152242

CLEARINGHOUSE ACCESSION NUMBER: SE518295

PUBLICATION DATE: DEC 76

TITLE: FILM REVIEWS

PERSONAL AUTHOR: DOWLING, JOHN, ED.

DESCRIPTOR: *COLLEGE SCIENCE; *ELECTRONICS; *ENERGY; *INSTRUCTIONAL FILMS; *PHYSICS; *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *SCIENCE EDUCATION; *SCHLIEREN PHOTOGRAPHY

ISSUE: CIJE1977

ABSTRACT: REVIEWS FIVE INSTRUCTIONAL FILMS ON: P-N JUNCTIONS; CRYSTAL DIODES; NUCLEAR FUSION RESEARCH; SCHLIEREN PHOTOGRAPHY; AND THE ENERGY CRISIS; INCLUDING DISCUSSIONS OF SOLAR, NUCLEAR, AND FOSSIL FUEL ENERGY. ALSO LISTS NUMEROUS OTHER AVAILABLE FILMS. (NLM)

JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS; 44; 12: 1234-1237

ACCESSION NUMBER: EJ152301

CLEARINGHOUSE ACCESSION NUMBER: S0505198

PUBLICATION DATE: JAN 77

TITLE: GLOBAL EDUCATION: AN URGENT CLAIM ON THE SOCIAL STUDIES CURRICULUM

PERSONAL AUTHOR: MARKER, GERALD W.

DESCRIPTOR: *INTERNATIONAL EDUCATION; *SOCIAL STUDIES; *GLOBAL APPROACH; *WORLD PROBLEMS; *CURRICULUM DESIGN; *POPULATION GROWTH; *FOOD; *ENERGY CONSERVATION; *EDUCATIONAL INNOVATION; *ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: POPULATION, FOOD, AND ENERGY ARE DISCUSSED AS CONCERNS TO WARRANT GLOBAL EDUCATION. FIVE OPTIONAL VIEWS OF GLOBAL ISSUES ARE PRESENTED AS CHOICES FOR EDUCATORS TO UPHOLD IN CURRICULUM DESIGN. (ND)

JOURNAL CITATION: SOCIAL EDUCATION; 41; 1: 12-9

ACCESSION NUMBER: EJ152382

CLEARINGHOUSE ACCESSION NUMBER: S0505279

PUBLICATION DATE: JAN 77

TITLE: SPATIAL PATTERNS AND DESIGN POLICIES FOR FUTURE AMERICAN CITIES

PERSONAL AUTHOR: DUTT, ASHOK K.; COSTA, FRANK J.

DESCRIPTOR: *GEOGRAPHY; *CITY PLANNING; *GEOGRAPHIC DISTRIBUTION; *FUTURES (OF SOCIETY); *URBAN AREAS; *URBAN STUDIES; *ENERGY CONSERVATION; *URBAN ENVIRONMENT; *LAND USE

ISSUE: CIJE1977

ABSTRACT: DESCRIBES PLANS FOR FUTURE URBAN DEVELOPMENT WHICH TAKE INTO ACCOUNT ENERGY NEEDS, MASS TRANSPORTATION, TECHNOLOGICAL INNOVATIONS, HIGH DENSITY SETTLEMENT ALONG THE RAPID TRANSIT SPINE, AND RATIONAL DECISION MAKING. (AUTHOR/DB)

JOURNAL CITATION: JOURNAL OF GEOGRAPHY; 76; 1: 24-7

ACCESSION NUMBER: EJ153210

CLEARINGHOUSE ACCESSION NUMBER: CE505951

PUBLICATION DATE: SEP-OCT 76

TITLE: CONSERVING ENERGY BY CHANGING SOCIETAL GOALS

PERSONAL AUTHOR: OLSEN, MARVIN E.

DESCRIPTOR: *ENERGY CONSERVATION; *ECOLOGICAL FACTORS; *SOCIAL VALUES; *HUMANIZATION; *SOCIOECONOMIC INFLUENCES; *LIFE STYLE; *FUEL CONSUMPTION; *COMMUNITY PLANNING; *CHANGE STRATEGIES; *UNITED STATES; *SWEDEN

ISSUE: CIJE1977

ABSTRACT: THE AUTHOR DISCUSSES SOCIAL VALUES AND GOALS FROM AN ECOLOGICAL HUMANIST VIEWPOINT, WITH COMPARISONS OF NATIONAL WEALTH, LIFE STYLE, AND ENERGY CONSUMPTION BETWEEN SWEDEN AND THE UNITED STATES. (MF)

JOURNAL CITATION: ILLINOIS TEACHER OF HOME ECONOMICS; 20; 1: 19-24

ACCESSION NUMBER: EJ153613

CLEARINGHOUSE ACCESSION NUMBER: EAS08082

PUBLICATION DATE: FEB 77

TITLE: ENERGY EFFICIENT SCHOOL DESIGNED FOR THE FUTURE

DESCRIPTOR: *SCHOOL DESIGN; *ENERGY CONSERVATION; *FLEXIBLE FACILITIES; *HEAT RECOVERY; *ELEMENTARY EDUCATION; *SCHOOL PLANNING; *CLIMATE CONTROL; *GREELEY ELEMENTARY SCHOOLS; *CHICAGO ILLINOIS PUBLIC SCHOOLS

ISSUE: CIJE1977

ABSTRACT: WHEN COMPLETED, THE PLANNED GREELEY ELEMENTARY SCHOOL WILL BE ABLE TO ACCOMMODATE ANY FUTURE CHANGES IN ENROLLMENT AND TECHNOLOGICAL DEVELOPMENTS, WHILE MAINTAINING A CONSTANT ENERGY EFFICIENT HEATING AND COOLING OPERATION. (AUTHOR/MF)

JOURNAL CITATION: MODERN SCHOOLS; 4-6

ACCESSION NUMBER: EJ153621

CLEARINGHOUSE ACCESSION NUMBER: EAS08091

PUBLICATION DATE: FEB 77

TITLE: ENERGY MANAGEMENT--HOW IT CONSERVES

PERSONAL AUTHOR: BOURASSA, A. A.

DESCRIPTOR: *ENERGY CONSERVATION; *PROGRAM DEVELOPMENTS; *PROGRAM DESCRIPTIONS; *GUIDELINES; *BOARD OF EDUCATION POLICY; *SCHOOL ADMINISTRATION; *ELEMENTARY SECONDARY EDUCATION; *CARLETON ONTARIO PUBLIC SCHOOLS

ISSUE: CIJE1977

ABSTRACT: DESCRIBES THE ENERGY MANAGEMENT PROGRAM DEVELOPED BY THE CARLETON BOARD OF EDUCATION IN OTTAWA, ONTARIO, AND PRESENTS SUGGESTED ENERGY CONSERVATION GUIDELINES FOR SCHOOL ADMINISTRATORS. (JG)

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS; 43; 2: 41-44

ACCESSION NUMBER: EJ153629

CLEARINGHOUSE ACCESSION NUMBER: EAS08099

PUBLICATION DATE: FEB 77

TITLE: CONFERENCE CENTER SERVES AS A SOLAR LAB

DESCRIPTOR: *SOLAR RADIATION; *ENERGY CONSERVATION; *HEATING; *HEAT RECOVERY; *HIGHER EDUCATION; *STATE UNIVERSITY OF NEW YORK AT ALBANY

ISSUE: CIJE1977

ABSTRACT: THE ALUMNI HOUSE CONFERENCE CENTER IS A WORKING EXAMPLE OF HOW TO USE AND CONSERVE ENERGY. THE SOLAR SYSTEM IS EXPECTED TO PROVIDE AT LEAST A THIRD OF THE BUILDING'S HEAT IN THE COLDEST MONTHS. (AUTHOR/MF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 49; 6: 22-23,25

ACCESSION NUMBER: EJ153632

CLEARINGHOUSE ACCESSION NUMBER: EAS08102

PUBLICATION DATE: FEB 77

TITLE: DO IT IN THE DARK . . . AND SAVE ENERGY

PERSONAL AUTHOR: ROBISON, RITA

DESCRIPTOR: *ENERGY CONSERVATION; *CONSERVATION EDUCATION; *BUILDING IMPROVEMENT; *HIGHER EDUCATION; *UNIVERSITY OF PENNSYLVANIA

ISSUE: CIJE1977

ABSTRACT: CAMPUS CONSERVATION MEASURES ARE COORDINATED AT A SINGLE POINT. ANALYSIS AND EVALUATION EFFORTS LEAD TO POLICY DEVELOPMENT AND PROJECT PROGRAMMING. (AUTHOR/MF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 49; 6: 52-53,55,58,60,63

ACCESSION NUMBER: EJ153634

CLEARINGHOUSE ACCESSION NUMBER: EAS08104

PUBLICATION DATE: FEB 77

TITLE: SOLAR ENERGY GOES TO SCHOOL

DESCRIPTOR: *SOLAR RADIATION; *HEATING; *ENERGY CONSERVATION; *SCHOOL BUILDINGS; *CLIMATE CONTROL; *FUEL CONSUMPTION; *BUILDING INNOVATION; *BUILDING SYSTEMS; *LIFE CYCLE COSTING; *ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: DESCRIBES SCHOOLS THAT HAVE INSTALLED SOLAR ENERGY HEATING AND COOLING SYSTEMS. (AUTHOR/MF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 49; 6: 70,73,75

ACCESSION NUMBER: EJ153653

CLEARINGHOUSE ACCESSION NUMBER: EAS08138

PUBLICATION DATE: JAN-FEB 77

TITLE: THE FUEL SCHOOLS USE

DESCRIPTOR: *NATIONAL SURVEYS; *SCHOOL DISTRICT SPENDING; *ENERGY; *FUEL CONSUMPTION; *SCHOOL STATISTICS; *ENERGY CONSERVATION; *TABLES; *DATA; *PUBLIC SCHOOL SYSTEMS; *ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: NEARLY 3,000 U.S. SCHOOL DISTRICTS REPORTED TO THE FEDERAL ENERGY ADMINISTRATION ON COMPARATIVE FUEL COSTS AND USE IN 1972-3 AND 1974-5. THE FEA SURVEY REPRESENTS THE FIRST MAJOR NATIONAL EFFORT TO ASSESS THE IMPACT OF RISING FUEL COSTS ON EDUCATION. (AUTHOR/MF)

JOURNAL CITATION: CEPP JOURNAL; 15; 1: 4-5

ACCESSION NUMBER: EJ154218

CLEARINGHOUSE ACCESSION NUMBER: SE518477

PUBLICATION DATE: FEB 77

TITLE: THINKING COPERNICAN THOUGHTS

PERSONAL AUTHOR: LAMM, RICHARD O.

DESCRIPTOR: *CONSERVATION EDUCATION; *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES; *PHYSICAL SCIENCES; *CONSERVATION (ENVIRONMENT); *FUEL CONSUMPTION; *POLITICAL ATTITUDES; *RESOURCE MATERIALS; *COLORADO

ISSUE: CIJE1977

ABSTRACT: THE GOVERNOR OF COLORADO EXPLORES TWO VIEWS RELATED TO CAUSES OF ENERGY SHORTAGE: INADEQUATE SUPPLY AND EXCESSIVE DEMAND. SUPPORTS BOTH INCREASED SUPPLY AND DECREASED DEMAND, BUT OFFERS REASONS FOR CONSERVATION AND ADJUSTMENT IN HABIT AND THINKING. THE SYNTHETIC FUELS PROGRAM OF COLORADO IS MENTIONED AS AN EXAMPLE. (CS)

JOURNAL CITATION: AMERICAN BIOLOGY TEACHER; 39; 2: 106,128

ACCESSION NUMBER: EJ155021

CLEARINGHOUSE ACCESSION NUMBER: EAS08174

PUBLICATION DATE: MAR 77

TITLE: ALL-ELECTRIC SCHOOL PROFILE: WASHINGTON ELEMENTARY EDUCATIONAL PARK

DESCRIPTOR: *SCHOOL DESIGN; *ELECTRICAL SYSTEMS; *EDUCATIONAL PARKS; *HEAT RECOVERY; *ENERGY CONSERVATION; *ELEMENTARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: EXISTING ELEMENTARY SCHOOLS IN WASHINGTON, PENNSYLVANIA, WERE REPLACED BY AN EDUCATIONAL PARK WITH TWO TORY BUILDINGS. A HEAT RECOVERY SYSTEM AND AN ADDITIONAL THICKNESS OF INSULATION CONSERVE ENERGY. (MLF)

JOURNAL CITATION: MODERN SCHOOLS; 4-6

ACCESSION NUMBER: EJ155117

CLEARINGHOUSE ACCESSION NUMBER: EAS08270

PUBLICATION DATE: APR 77

TITLE: REATING THE HIGH COST OF ENERGY IN SCHOOLS--WHY IT MUST BE DONE, AND HOW TO DO IT

PERSONAL AUTHOR: MOSES, RANFRED

DESCRIPTOR: *COSTS; *FUEL CONSUMPTION; *ENERGY CONSERVATION; *BUILDING DESIGN; *ELEMENTARY SECONDARY EDUCATION; *SCHOOL BUILDINGS; *CLIMATE CONTROL; *CONSULTANTS

ISSUE: CIJE1977

JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL; 164; 4: 26-30

ACCESSION NUMBER: EJ155370

CLEARINGHOUSE ACCESSION NUMBER: ME508542

PUBLICATION DATE: MAR/APR 77

TITLE: A BUSINESSMAN'S TIP ON ENERGY SAVING

PERSONAL AUTHOR: SPEER, EDGAR B.

DESCRIPTOR: *HIGHER EDUCATION; *ENERGY CONSERVATION; *COST EFFECTIVENESS; *FUEL CONSUMPTION; *BUILDING OPERATION; *MANAGEMENT; *INDUSTRY; *CAMPUSES; *PHYSICAL FACILITIES; *EFFICIENCY; *COST REDUCTION INCENTIVE AWARD PROGRAM

ISSUE: CIJE1977

ABSTRACT: THE PRESIDENT OF U.S. STEEL EXPLAINS THE THINKING BEHIND THE COST REDUCTION INCENTIVE AWARD PROGRAM. IT IS A WAY TO INVOLVE EVERYONE IN SAVING ENERGY AND CUTTING OTHER COSTS. HE HOPES THAT THIS AWARDS PROGRAM WILL HELP DEVELOP A BROAD AWARENESS OF COST PROBLEMS AMONG THOSE ASSOCIATED WITH INSTITUTIONS OF HIGHER EDUCATION AND THE NEED FOR A TOTAL CAMPUS APPROACH. (EDITOR/LBH)

JOURNAL CITATION: AGE REPORTS: 19: 2: 44-7

ACCESSION NUMBER: EJ155744

CLEARINGHOUSE ACCESSION NUMBER: SE918419

PUBLICATION DATE: JAN 77

TITLE: INTERNATIONAL GEOLOGY

PERSONAL AUTHOR: HOOVER, LINN

DESCRIPTOR: *ENERGY; *GEOLOGY; *INTERNATIONAL PROGRAMS; *LAND USE; *OCEAN ENGINEERING; INTERNATIONAL ORGANIZATIONS

ISSUE: CIJE1977

ABSTRACT: BRIEFLY DISCUSSES RECENT INTERNATIONAL PROGRAMS IN VARIOUS AREAS OF GEOLOGY, INCLUDING LAND-USE PROBLEMS, COPING WITH GEOLOGICAL HAZARDS, AND CONSERVING THE ENVIRONMENT WHILE SEARCHING FOR ENERGY AND MINERAL RESOURCES. (MLH)

JOURNAL CITATION: GEOTIMES: 22: 1: 27-29

ACCESSION NUMBER: EJ155749

CLEARINGHOUSE ACCESSION NUMBER: SE918424

PUBLICATION DATE: JAN 77

TITLE: OIL & GAS

PERSONAL AUTHOR: NEVERHOFF, ARTHUR A.

DESCRIPTOR: *ENERGY; *FUELS; *GEOLOGY; *NATURAL RESOURCES; *STATISTICAL DATA; WORLD PROBLEMS

ISSUE: CIJE1977

ABSTRACT: PRESENTS STATISTICS FOR 1976 CONCERNING THE PRODUCTION OF FOSSIL FUELS THROUGHOUT THE WORLD. (MLH)

JOURNAL CITATION: GEOTIMES: 22: 1: 33-34

ACCESSION NUMBER: EJ155753

CLEARINGHOUSE ACCESSION NUMBER: SE918428

PUBLICATION DATE: JAN 77

TITLE: THE POLITICAL VIEW

PERSONAL AUTHOR: BLAU, PETER E.

DESCRIPTOR: *ENERGY; *FUELS; *GEOLOGY; *GOVERNMENT ROLE; *POLITICAL ISSUES; FEDERAL GOVERNMENT; FEDERAL LEGISLATION; NATURAL RESOURCES

ISSUE: CIJE1977

ABSTRACT: DISCUSSES PRESIDENT CARTER'S PROCLAIMED NEWS ON ENERGY-RELATED ISSUES AND LEGISLATION AFFECTING THE DEVELOPMENT OF ENERGY AND NATURAL RESOURCES. (MLH)

JOURNAL CITATION: GEOTIMES: 22: 1: 38

ACCESSION NUMBER: EJ155780

CLEARINGHOUSE ACCESSION NUMBER: SE918516

PUBLICATION DATE: FEB 77

TITLE: THE NUCLEAR DEBATE IN FILM

PERSONAL AUTHOR: DOWLING, JOHN

DESCRIPTOR: *ATOMIC THEORY; *BIBLIOGRAPHIES; *ENERGY; *HIGHER EDUCATION; *INSTRUCTIONAL FILMS; *SECONDARY EDUCATION; COLLEGE SCIENCES; FILMS; NUCLEAR PHYSICS; SCIENCE EDUCATION; SECONDARY SCHOOL SCIENCE; *ATOMIC BOMBS

ISSUE: CIJE1977

ABSTRACT: PROVIDES A NUCLEAR FILM BIBLIOGRAPHY GROUPED INTO THE AREAS OF: BUILDING AND USING THE BOMB; LIVING WITH THE BOMB; AND LIVING WITH NUCLEAR POWER. THESE FILMS ARE FOR MATURE HIGH SCHOOL STUDENTS AND OLDER. (MLH)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS: 33: 2: 32-34

ACCESSION NUMBER: EJ155810

CLEARINGHOUSE ACCESSION NUMBER: SE918400

PUBLICATION DATE: MAR 77

TITLE: NEW ADMINISTRATION: EPA NOMINEES SEEM ACCEPTABLE TO ALL SIDES

PERSONAL AUTHOR: CARTER, LUTHER J.

DESCRIPTOR: *EMPLOYMENT EXPERIENCES; *ENERGY; *ENVIRONMENT; *FEDERAL GOVERNMENT; *GOVERNMENT EMPLOYEES; EMPLOYMENT QUALIFICATIONS; EDITORIALS

ISSUE: CIJE1977

ABSTRACT: SURVEYS APPOINTMENTS IN THE AREAS OF ENERGY AND ENVIRONMENT MADE BY PRESIDENT CARTER. REVIEWS APPOINTEES PAST EXPERIENCE, COVERS APPOINTMENTS IN ENVIRONMENTAL PROTECTION AGENCY, COUNCIL ON ENVIRONMENTAL QUALITY, DEPARTMENT OF AGRICULTURE, AND THE FEDERAL ENERGY ADMINISTRATION. (CS)

JOURNAL CITATION: SCIENCE: 195: 4281: 852-854

ACCESSION NUMBER: EJ155828

CLEARINGHOUSE ACCESSION NUMBER: SE918638

PUBLICATION DATE: MAR 77

TITLE: CARTER REVISES THE SCIENCE BUDGET

DESCRIPTOR: *BUDGETS; *ENERGY; *ENERGY CONSERVATION; *GOVERNMENT ROLE; *SCIENTIFIC RESEARCH; *SPACE SCIENCES; FEDERAL LEGISLATION; POLITICAL INFLUENCES

ISSUE: CIJE1977

ABSTRACT: REVIEWS BUDGET CHANGES MADE BY PRESIDENT CARTER IN THE FOLLOWING SCIENCE AREAS: BASIC SCIENCE RESEARCH; FUSION RESEARCH; AND BREEDER REACTOR PROJECTS; OIL AND GAS RECOVERY; COAL CONVERSION TECHNIQUES; AND SPACE EXPLORATION. (CS)

JOURNAL CITATION: SCIENCE NEWS: 111: 30: 150

ACCESSION NUMBER: EJ155922

CLEARINGHOUSE ACCESSION NUMBER: 50505409

PUBLICATION DATE: APR 77

TITLE: SPECIAL INSERT OF CLASSROOM MATERIALS FROM THE POPULATION REFERENCE BUREAU

DESCRIPTOR: *POPULATION; *EDUCATION; *INSTRUCTIONAL MATERIALS; *SOCIAL STUDIES; FOOD; ENERGY; DEATH; AGE GROUPS; ENROLLMENT; TRENDS; FEMALES; SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: THIS 12-PAGE INSERT CONTAINS MATERIALS FROM THE POPULATION REFERENCE BUREAU, INCLUDING ARE CHARTS, STATISTICS AND READINGS TO HELP SECONDARY TEACHERS AND STUDENTS EXPLORE SUCH AREAS AS: FOOD BALANCE, ENERGY, MORTALITY, AGE STRUCTURE, STATUS OF WOMEN, AND SCHOOL ENROLLMENTS IN THE UNITED STATES. (AUTHOR/RH)

JOURNAL CITATION: SOCIAL EDUCATION: 41: 4: 310-22

ACCESSION NUMBER: EJ156283

CLEARINGHOUSE ACCESSION NUMBER: AA525023

PUBLICATION DATE: OCT 76

TITLE: A LOOK AT NEW JERSEY'S ENERGY CONSERVATION YOUTH TRAINING PROGRAM

DESCRIPTOR: *HIGH SCHOOL STUDENTS; *ENERGY CONSERVATION; *WORKSHOPS; *PROGRAM DESCRIPTIONS; *EDUCATIONAL OBJECTIVES; MIDDLE SCHOOLS; STUDENT ATTITUDES; GROUP DISCUSSION

ISSUE: CIJE1977

ABSTRACT: WITH THE ENERGY CRISIS STILL VERY MUCH WITH US, HERE IS A PROGRAM THAT IS GETTING NEW JERSEY'S STUDENTS INVOLVED IN ENERGY CONSERVATION. (EDITOR)

JOURNAL CITATION: NJEA REVIEW: 50: 2: 46-7

ACCESSION NUMBER: EJ156697

CLEARINGHOUSE ACCESSION NUMBER: CE506206

PUBLICATION DATE: APR 77

TITLE: THE FUEL CELL: FACT NOT FANTASY

PERSONAL AUTHOR: RIENDEAU, ALBERT J.

DESCRIPTOR: *FUELS; *ENERGY; *ELECTRIC BATTERIES; TECHNOLOGICAL ADVANCEMENT; *FUEL CELLS

ISSUE: CIJE1977

ABSTRACT: DISCUSSES THE FUEL CELL, AN ELECTROCHEMICAL DEVICE WHICH CONVERTS CHEMICAL ENERGY INTO ELECTRICITY, AS A PROMISING ENERGY SOURCE FOR THE FUTURE. ADVANTAGES ARE LISTED AND THE NEED FOR GOVERNMENT SUPPORT EMPHASIZED. (MD)

JOURNAL CITATION: INDUSTRIAL EDUCATION: 66: 4: 24-6

ACCESSION NUMBER: EJ157025

CLEARINGHOUSE ACCESSION NUMBER: EA508319

PUBLICATION DATE: APR 77

TITLE: SPACE COSTING IN COLLEGES AND UNIVERSITIES

DESCRIPTOR: *RESOURCE ALLOCATIONS; *OPERATING EXPENSES; *DEPARTMENTS; *COST EFFECTIVENESS; HIGHER EDUCATION; SCHOOL MAINTENANCE; FACILITY UTILIZATION RESEARCH; SPACE UTILIZATION; BUILDING OPERATION; ENERGY CONSERVATION

ISSUE: CIJE1977

ABSTRACT: PLACING THE SPACE COSTS WITH THE OPERATING BUDGET OF THE COLLEGE OR DEPARTMENT ENABLES THE ADMINISTRATION TO SEE MORE COMPLETELY THE TOTAL COST OF THE ACADEMIC PROGRAM AND ENCOURAGES ENERGY CONSERVATION. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 61
20,22-23

ACCESSION NUMBER: EJ157020

CLEARINGHOUSE ACCESSION NUMBER: EA508322

PUBLICATION DATE: APR 77

TITLE: DESIGNING TO SAVE ENERGY

PERSONAL AUTHOR: SANTANARIA, JOSEPH W.

DESCRIPTOR: *ENERGY CONSERVATION; *SCHOOL CONSTRUCTION;
*COMMUNITY COLLEGES; *LIGHTING DESIGN; *HEAT RECOVERY;
*ILLUMINATION LEVELS; *AIR CONDITIONING; PERFORMANCE
SPECIFICATIONS; HIGHER EDUCATION

ISSUE: CIJE1977

ABSTRACT: WHILE TRIPLING THE CAMPUS SIZE OF ALVIN COMMUNITY
COLLEGE IN TEXAS, ARCHITECTS AND ENGINEERS CUT BACK ON
NONESSENTIAL LIGHTING, RECAPTURED WASTE HEAT, INSULATED
EVERYTHING POSSIBLE, AND LET ENERGY CONSIDERATIONS DICTATE
THE SIZE AND SHAPE OF THE BUILDING. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 61
34-35,37

ACCESSION NUMBER: EJ157030

CLEARINGHOUSE ACCESSION NUMBER: EA508324

PUBLICATION DATE: APR 77

TITLE: CUTTING LABORATORY ENERGY COSTS

DESCRIPTOR: *ENERGY CONSERVATION; *SCIENCE LABORATORIES;
*BUILDING DESIGN; *TECHNICAL SCHOOLS; *HEAT RECOVERY; HIGHER
EDUCATION; UNIVERSITY OF NORTH CAROLINA

ISSUE: CIJE1977

ABSTRACT: A HEAT RECLAIM SYSTEM AND CAREFUL INSULATING WILL
CUT ENERGY USE IN A UNIVERSITY OF NORTH CAROLINA, CHAPEL
HILL, MEDICAL LABORATORY-OFFICE BUILDING. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 61
41,44

ACCESSION NUMBER: EJ157063

CLEARINGHOUSE ACCESSION NUMBER: EA508357

PUBLICATION DATE: APR 77

TITLE: PARABOLIC LUMINAIRES USED IN TEN SAN DIEGO SCHOOLS

DESCRIPTOR: *ELEMENTARY EDUCATION; *ENERGY CONSERVATION;
*LIGHTING DESIGN; CALIFORNIA (SAN DIEGO)

ISSUE: CIJE1977

ABSTRACT: TEN NEW ELEMENTARY SCHOOLS IN CALIFORNIA ARE
PROVIDING ENERGY-CONSERVING HIGH EFFICIENCY LIGHTING FOR
THEIR STUDENTS. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS: 11

ACCESSION NUMBER: EJ157414

CLEARINGHOUSE ACCESSION NUMBER: SE510577

PUBLICATION DATE: FEB 77

TITLE: PERSPECTIVES ON ENERGY AND THE ENVIRONMENT

PERSONAL AUTHOR: FIREBAUGH, MORRIS W.

DESCRIPTOR: *COLLEGE SCIENCE; *ENERGY; *ENERGY
CONSERVATION; *PHYSICS; *TEACHING METHODS; *FUELS; HIGHER
EDUCATION; INSTRUCTION; INSTRUCTIONAL MATERIALS; SCIENCE
EDUCATION

ISSUE: CIJE1977

ABSTRACT: DISCUSSES AN INSTRUCTIONAL METHOD FOR ANALYZING
ENERGY SHORTAGE PROBLEMS IN RELATION TO THE ENVIRONMENT.
(MLH)

JOURNAL CITATION: PHYSICS TEACHER: 15: 21 78-85

ACCESSION NUMBER: EJ150252

CLEARINGHOUSE ACCESSION NUMBER: CE506273

PUBLICATION DATE: APR 77

TITLE: ENERGY EDUCATION--OUR MANDATE

PERSONAL AUTHOR: GREENWALD, MARTIN; MAHN, MARSHALL

DESCRIPTOR: *TEACHER RESPONSIBILITY; *ENERGY CONSERVATION;
*CURRICULUM DEVELOPMENT; *INDUSTRIAL ARTS TEACHERS;
*INDUSTRIAL EDUCATION; *FUEL CONSUMPTION; *INDUSTRIAL ARTS;
*FUTURES (OF SOCIETY); POLICY FORMATION

ISSUE: CIJE1977

ABSTRACT: INDUSTRIAL ARTS EDUCATORS MUST TEACH STUDENTS
ABOUT THE DIMINISHING SUPPLY OF FOSSIL FUELS AND MAKE THEM
AWARE OF ALTERNATIVE SOURCES OF ENERGY. (EDITOR/TA)

JOURNAL CITATION: MAN/SOCIETY/TECHNOLOGY: 36: 7: 214-217

ACCESSION NUMBER: EJ150314

CLEARINGHOUSE ACCESSION NUMBER: CE506335

PUBLICATION DATE: MAY-JUN 77

TITLE: POSSIBLE NEW SOURCES OF ENERGY

PERSONAL AUTHOR: SMITH, HOWARD

DESCRIPTOR: *ENERGY; NATURAL RESOURCES; *HYDROGEN; PLANTS;
WATER

ISSUE: CIJE1977

ABSTRACT: NOTES ON A METHOD FOR MANUFACTURING HYDROGEN GAS
FROM PLANT LIFE AND WATER WITH THE HELP OF SUNLIGHT. (JT)

JOURNAL CITATION: INDUSTRIAL EDUCATION: 66: 5: 6

ACCESSION NUMBER: EJ150326

CLEARINGHOUSE ACCESSION NUMBER: CE506347

PUBLICATION DATE: APR 77

TITLE: VO-TECH STUDENTS CONSTRUCT ENERGY-SAVING CAR

PERSONAL AUTHOR: LUND, J. PRESTON

DESCRIPTOR: *FLUID POWER EDUCATION; *ENERGY CONSERVATION;
*MOTOR VEHICLES; TECHNICAL EDUCATION; VOCATIONAL EDUCATION;
DEMONSTRATION PROJECTS; POST SECONDARY EDUCATION; STUDENT
DEVELOPMENT; STUDENT PROJECTS; PERFORMANCE BASED EDUCATION;
MINNEAPOLIS

ISSUE: CIJE1977

ABSTRACT: DESCRIBES THE FLUID POWER TECHNOLOGY PROGRAM AT
THE HENNEPIN TECHNICAL CENTER IN SUBURBAN MINNEAPOLIS
(MINNESOTA), WHERE STUDENTS DESIGNED A PROTOTYPE CAR WHICH
THEY BELIEVE WILL GET 75 MILES PER GALLON AND CRUISE AT 70
MILES PER HOUR. (MD)

JOURNAL CITATION: AMERICAN VOCATIONAL JOURNAL: 92: 4: 54-56

ACCESSION NUMBER: EJ150751

CLEARINGHOUSE ACCESSION NUMBER: EA508393

PUBLICATION DATE: MAY 77

TITLE: MORE SPACE THAN YOU NEED? HERE'S WHAT TO DO WITH
IT--AND SAVE SOME ENERGY, TOO

DESCRIPTOR: *SPACE UTILIZATION; *SCHOOL BUILDINGS; *ENERGY
CONSERVATION; ELEMENTARY SECONDARY EDUCATION; EDUCATIONAL
FACILITIES

ISSUE: CIJE1977

JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL: 164: 5:
34-35

ACCESSION NUMBER: EJ150766

CLEARINGHOUSE ACCESSION NUMBER: EA508408

PUBLICATION DATE: SPR 77

TITLE: SAVE ENERGY AND SAVE A TEACHER

PERSONAL AUTHOR: KLEIN, KEITH

DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION;
*GUIDELINES; DEFINITIONS; ELEMENTARY SECONDARY EDUCATION;
POST SECONDARY EDUCATION

ISSUE: CIJE1977

JOURNAL CITATION: CATALYST FOR CHANGE: 6: 3: 26-27,29

ACCESSION NUMBER: EJ150707

CLEARINGHOUSE ACCESSION NUMBER: EA508430

PUBLICATION DATE: MAY 77

TITLE: FIVE NEW ALL-ELECTRIC SCHOOLS GET HAVE NOTICES

DESCRIPTOR: *SCHOOL CONSTRUCTION; *CONSTRUCTION MANAGEMENT;
*PREFABRICATION; *ELECTRICAL SYSTEMS; *ENERGY CONSERVATION;
ELEMENTARY EDUCATION; CONSTRUCTION COSTS; SCHOOL
IMPROVEMENT; WEST VIRGINIA (RANDOLPH COUNTY)

ISSUE: CIJE1977

ABSTRACT: CONFRONTED WITH OLD, INADEQUATE, AND OVERCROWDED
SCHOOLS, RANDOLPH COUNTY, WEST VIRGINIA, TURNED A PROBLEM
INTO A CHALLENGE AND CONSTRUCTED FIVE NEW ELEMENTARY SCHOOLS
(AND RENOVATED NINE OTHER SCHOOLS) IN JUST ONE AND ONE-HALF
YEAR'S CONSTRUCTION TIME. (AUTHOR)

JOURNAL CITATION: MODERN SCHOOLS: 4-6

ACCESSION NUMBER: EJ150700

CLEARINGHOUSE ACCESSION NUMBER: EA508431

PUBLICATION DATE: MAY 77

TITLE: JUNIOR HIGH GETS ENERGY EFFICIENT VAV SYSTEM

DESCRIPTOR: *ENERGY CONSERVATION; *FLEXIBLE LIGHTING
DESIGN; *HEAT RECOVERY; *SCHOOL DESIGN; JUNIOR HIGH SCHOOLS;
ELECTRICAL SYSTEMS; AIR FLOW; *ISANT, MINNESOTA JUNIOR HIGH
SCHOOL

ISSUE: CIJE1977

ABSTRACT: MINNESOTA'S ISANTI JUNIOR HIGH, DESIGNED WITH AN ENERGY EFFICIENT VARIABLE AIR VOLUME SYSTEM, IS AN INNOVATIVE SCHOOL SELECTED FOR DISPLAY AT THE 1977 EXHIBITION OF SCHOOL ARCHITECTURE IN LAS VEGAS. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS: 7

ACCESSION NUMBER: EJ158789

CLEARINGHOUSE ACCESSION NUMBER: EA508432

PUBLICATION DATE: MAY 77

TITLE: ENERGY CONSERVATION PLAN FOR THE PUBLIC SCHOOL

PERSONAL AUTHOR: BEERMAN, ALBERT L.

DESCRIPTOR: *ENERGY CONSERVATION; *ADMINISTRATIVE POLICY; *ADMINISTRATOR GUIDE; *PLANNING; *FEEDBACK; CLIMATE CONTROL; SCHOOL SCHEDULES; EQUIPMENT MAINTENANCE; ILLUMINATION LEVELS; COST EFFECTIVENESS

ISSUE: CIJE1977

ABSTRACT: A COMPREHENSIVE ENERGY MANAGEMENT PROGRAM CONTAINS THESE BASIC PARTS: A PLAN WITH RESPONSIBILITY FOR PERFORMANCE, A SYSTEM FOR MONITORING AND EVALUATING THE RESULTS, AND FEEDBACK TO MAKE SURE THE SAVINGS ARE MAINTAINED. (AUTHOR/MLF)

JOURNAL CITATION: MODERN SCHOOLS: 8-9

ACCESSION NUMBER: EJ158793

CLEARINGHOUSE ACCESSION NUMBER: EA508436

PUBLICATION DATE: MAY 77

TITLE: CAN WE TAP THE WIND?

PERSONAL AUTHOR: GARONER, JOHN C.

DESCRIPTOR: *ENERGY; *EXPERIMENTS; *ELECTRIC CIRCUITS; FORCE; EQUIPMENT; EFFICIENCY; HIGHER EDUCATION; *WIND GENERATORS; *COLUMBIA UNIVERSITY

ISSUE: CIJE1977

ABSTRACT: IN AN EFFORT TO HELP DEVELOP PRACTICAL APPLICATIONS OF ALTERNATIVE ENERGY, A WIND TURBINE GENERATOR IS TO BE MOUNTED ON A 40-FOOT TOWER ON THE ROOF OF A COLUMBIA UNIVERSITY BUILDING. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 7: 8,10

ACCESSION NUMBER: EJ158795

CLEARINGHOUSE ACCESSION NUMBER: EA508438

PUBLICATION DATE: MAY 77

TITLE: LAW SCHOOL, UNIVERSITY OF MINNESOTA, MINNEAPOLIS

DESCRIPTOR: *AWARDS; *BUILDING DESIGN; *LAW SCHOOLS; *ENERGY CONSERVATION; HEAT RECOVERY; ARCHITECTURAL CHARACTER; ILLUMINATION LEVELS; HIGHER EDUCATION; *UNIVERSITY OF MINNESOTA

ISSUE: CIJE1977

ABSTRACT: THE UNIVERSITY OF MINNESOTA LAW SCHOOL IS A WINNER IN THE ASU 1977 COLLEGE & UNIVERSITY ARCHITECTURAL COMPETITION. THE JURY COMMENTED ON THE STRONG RECOGNITION OF ENERGY CONSERVATION AND THE SKILLFUL INTEGRATION OF THE BUILDING WITH THE EXISTING CAMPUS. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 7: 28-29

ACCESSION NUMBER: EJ158797

CLEARINGHOUSE ACCESSION NUMBER: EA508440

PUBLICATION DATE: MAY 77

TITLE: ROCK CREEK CENTER, PORTLAND COMMUNITY COLLEGE, PORTLAND, OREGON

DESCRIPTOR: *AWARDS; *BUILDING DESIGN; *ENERGY CONSERVATION; COMMUNITY COLLEGES; JUNIOR COLLEGES; ARCHITECTURAL CHARACTER; *PORTLAND OREGON COMMUNITY COLLEGE

ISSUE: CIJE1977

ABSTRACT: THE PORTLAND COMMUNITY COLLEGE WAS GIVEN AN AWARD IN THE ASU 1977 COLLEGE & UNIVERSITY ARCHITECTURAL COMPETITION FOR THE ROCK CREEK CENTER, DESIGNED LIKE A SHOPPING CENTER THAT LETS PEOPLE VIEW THE VARIOUS ACTIVITIES INSIDE. (AUTHOR/MLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 7: 32-33

ACCESSION NUMBER: EJ159393

CLEARINGHOUSE ACCESSION NUMBER: SE518792

PUBLICATION DATE: MAR 77

TITLE: THE SOLAR CONSTANT: A TAKE HOME LAB

PERSONAL AUTHOR: EATON, B. G.; AND OTHERS

DESCRIPTOR: *ENERGY; *INSTRUCTIONAL MATERIALS; *PHYSICS; *SCIENCE ACTIVITIES; *SECONDARY SCHOOL SCIENCE; *SOLAR

RADIATION; FIELD EXPERIENCE PROGRAMS; SCIENCE EDUCATION; SECONDARY EDUCATION; *SOLAR CONSTANT

ISSUE: CIJE1977

ABSTRACT: DESCRIBES A METHOD THAT USES ENERGY FROM THE SUN, ABSORBED BY ALUMINUM DISCS, TO MELT ICE, AND ALLOWS THE DETERMINATION OF THE SOLAR CONSTANT. THE TAKE-HOME EQUIPMENT INCLUDES TYROFOAM CUPS, A PLASTIC SYRINGE, AND ALUMINUM DISCS. (MLH)

JOURNAL CITATION: PHYSICS TEACHER: 15: 3: 172-173

ACCESSION NUMBER: EJ159449

CLEARINGHOUSE ACCESSION NUMBER: SE518963

PUBLICATION DATE: MAR 77

TITLE: ENERGY FOR HARKING

PERSONAL AUTHOR: PINCHERLE, L.; RICE-EVANS, P.

DESCRIPTOR: *ENERGY; *FUEL CONSUMPTION; *NUCLEAR PHYSICS; *STATISTICAL DATA; *WORLD PROBLEMS; FUELS; PHYSICS

ISSUE: CIJE1977

ABSTRACT: DISCUSSES STATISTICS CONCERNING WORLD ENERGY REQUIREMENTS AND SUPPLIES OF DIFFERENT TYPES OF FUELS. ALSO DISCUSSES THE STORAGE AND TRANSMISSION OF ENERGY AND POLLUTION PROBLEMS RELATED TO ENERGY UTILIZATION. (MLH)

JOURNAL CITATION: PHYSICS EDUCATION: 12: 2: 97-103

ACCESSION NUMBER: EJ159459

CLEARINGHOUSE ACCESSION NUMBER: SE518973

PUBLICATION DATE: APR 77

TITLE: THE GLOBAL AGE: ROLES OF BASIC AND APPLIED RESEARCH

PERSONAL AUTHOR: MCLEOD, W. D.

DESCRIPTOR: *GLOBAL APPROACH; *GOVERNMENT ROLE; *SCIENCE; *SCIENTIFIC RESEARCH; *TECHNOLOGY; *WORLD PROBLEMS; ENERGY; NATURAL RESOURCES; RESEARCH; TECHNOLOGICAL ADVANCEMENT

ISSUE: CIJE1977

ABSTRACT: DEFINES ROLES OF BASIC AND APPLIED RESEARCH IN SOLVING PROBLEMS OF THE GLOBAL AGE, I.E., ENERGY PRODUCTION, POPULATION, FOOD PRODUCTION, ETC. DISCUSSED ARE VALUES IN SUPPORTING BASIC RESEARCH; PROVIDING RESEARCH FUNDS FOR YOUNG SCIENTISTS; ENCOURAGING MULTI-DISCIPLINARY, PROBLEM-ORIENTED RESEARCH; IMPROVING COMMUNICATIONS BETWEEN BASIC AND APPLIED SCIENCES; AND ASSIGNING SPECIFIC RESPONSIBILITIES TO LEAD UNIVERSITIES. (CS)

JOURNAL CITATION: SCIENCE: 196: 4287: 267-270

ACCESSION NUMBER: EJ159464

CLEARINGHOUSE ACCESSION NUMBER: SE518978

PUBLICATION DATE: APR 77

TITLE: ENVIRONMENTALISTS, THEY HAVE A LITTLE LIST

PERSONAL AUTHOR: EMER, LOIS R.

DESCRIPTOR: *CONFERENCE REPORTS; *ENVIRONMENT; *ENVIRONMENTAL RESEARCH; *PROGRAM DESCRIPTIONS; *SOCIAL PROBLEMS; ENERGY; GENETICS; NATURAL RESOURCES; POLLUTION; VALUES

ISSUE: CIJE1977

ABSTRACT: DISCUSSES A REPORT OF 12 OF THE NATION'S LEADING ENVIRONMENTAL GROUPS WHICH IDENTIFIES NINE ENVIRONMENTAL PROBLEM AREAS AND PROPOSES 75 SPECIFIC ACTIONS FOR APPROACHING PRESENT AND FORESEEABLE PROBLEMS. (MLH)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY: 11: 4: 340-341

ACCESSION NUMBER: EJ159765

CLEARINGHOUSE ACCESSION NUMBER: AA525726

PUBLICATION DATE: JAN 77

TITLE: AN ENERGY ETHIC AT WEST DEPTFORD

PERSONAL AUTHOR: CURTIS, WILLIAM D., JR.

DESCRIPTOR: *ENERGY CONSERVATION; *STUDENT PROJECTS; *EDUCATIONAL PRACTICE; *PROGRAM DESCRIPTIONS; *NATURAL RESOURCES; STUDENT PARTICIPATION; SCHOOL POLICY; NEW JERSEY (WEST DEPTFORD)

ISSUE: CIJE1977

ABSTRACT: IT'S MORE THAN TURNING OUT THE LIGHTS WHEN THEY ARE NOT IN USE, BUT THAT IS A START TOWARD ESTABLISHING AN ENERGY ETHIC. (EDITOR)

JOURNAL CITATION: NJEA REVIEW: 50: 5: 14-5

ACCESSION NUMBER: EJ160054

CLEARINGHOUSE ACCESSION NUMBER: CE506395

PUBLICATION DATE: MAY-JUN 77

TITLE: ENERGY CONSERVATION THROUGH ARCHITECTURAL DESIGN

PERSONAL AUTHOR: THOMSON, ROBERT C., JR.

DESCRIPTOR: *COURSE DESCRIPTIONS; *INDUSTRIAL ARTS; *ENERGY CONSERVATION; *BUILDING DESIGN; *LEARNING ACTIVITIES; *CONSERVATION EDUCATION; *UNIT PLANS; *SKILL DEVELOPMENT; *CURRICULUM DEVELOPMENT; *ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: DESCRIBES A TEACHING UNIT DESIGNED TO CREATE IN STUDENTS AN AWARENESS OF AND AN APPRECIATION FOR THE POSSIBILITIES FOR ENERGY CONSERVATION AS THEY RELATE TO ARCHITECTURE. IT IS NOTED THAT THE UNIT CAN BE ADAPTED FOR USE IN MANY INDUSTRIAL PROGRAMS AND WITH DIFFERENT TEACHING METHODS DUE TO THE VARIETY OF ACTIVITIES THAT CAN BE USED. (EDITOR/TA)

JOURNAL CITATION: MAN/SOCIETY/TECHNOLOGY; 36: 8: 240-244

ACCESSION NUMBER: EJ160090

CLEARINGHOUSE ACCESSION NUMBER: CE906491

PUBLICATION DATE: MAY-JUN 77

TITLE: ESTABLISHING PRIORITIES FOR POSTSECONDARY ENERGY-RELATED TECHNOLOGY PROGRAMS

PERSONAL AUTHOR: BROOKING, WALTER J.

DESCRIPTOR: *ENERGY; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL TECHNICIANS

ISSUE: CIJE1977

ABSTRACT: DATA FROM A SHELL OIL COMPANY FORECAST OF NATIONAL ENERGY REQUIREMENTS THROUGH 1990 AND FROM A NATIONAL INVITATIONAL CONFERENCE ON ENERGY-RELATED POSTSECONDARY PROGRAMS ARE PRESENTED UNDER THE FOLLOWING HEADINGS: COAL MINING BENEFICIATION AND PROCESSING; PETROLEUM EXTRACTION AND REFINING; NUCLEAR POWER PRODUCTION; SOLAR ENERGY; AND ENERGY MONITORING OR CONTROL TECHNICIANS. (HQ)

JOURNAL CITATION: TECHNICAL EDUCATION NEWS; 36: 4: 14-19

ACCESSION NUMBER: EJ160514

CLEARINGHOUSE ACCESSION NUMBER: EA508677

PUBLICATION DATE: MAR 77

TITLE: WINTER 1977 IN OHIO--AN ENERGY NIGHTMARE

DESCRIPTOR: *ENERGY CONSERVATION; *UTILITIES; *HEATING; *FUEL CONSUMPTION; *SCHOOL CLOSING; *DEPLETED RESOURCES; *ADMINISTRATOR GUIDES; *SCHOOL MAINTENANCE; *BUILDING OPERATIONS; OHIO

ISSUE: CIJE1977

ABSTRACT: DESCRIBES THE TREMENDOUS MANAGEMENT AND MAINTENANCE PRESSURE THE ENERGY SHORTAGE CAUSES AND OFFERS SOME RECOMMENDATIONS. (AUTHOR/NLF)

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS; 43: 3: 59-62

ACCESSION NUMBER: EJ140822

CLEARINGHOUSE ACCESSION NUMBER: RC902410

PUBLICATION DATE: DEC 76

TITLE: POWER AGAINST POWER IN THE FOUR CORNERS REGION, PART I

PERSONAL AUTHOR: D'ANDREA, PATRICIA

DESCRIPTOR: *CONFLICT; *LAND USE; *NATURAL RESOURCES; *SOCIOECONOMIC INFLUENCES; *ECONOMIC DEVELOPMENT; *ORGANIZATIONS (GROUPS); *FOUR CORNERS AREA; *ENERGY PRODUCTION; *EXTRACTIVE INDUSTRIES

ISSUE: CIJE1977

ABSTRACT: FIRST IN A FOUR-PART SERIES ON POWER IN THE FOUR CORNERS REGION. THIS ARTICLE PRESENTS THE OPINIONS OF REPRESENTATIVES OF THE SIERRA CLUB, WHICH IS ONE OF THE NON-GOVERNMENTAL GROUPS WHO HAVE SHOWN AN INTEREST IN THE REGION. (HQ)

JOURNAL CITATION: LA CONFLUENCIA; 1: 2: 4-11

ACCESSION NUMBER: EJ160941

CLEARINGHOUSE ACCESSION NUMBER: SE519102

PUBLICATION DATE: APR 77

TITLE: THE ENERGY CRISIS: A CREATIVE APPROACH

PERSONAL AUTHOR: MURPHY, ALISON, E. AND OTHERS

DESCRIPTOR: *COMMUNITY INVOLVEMENT; *ELEMENTARY EDUCATION; *ELEMENTARY SCHOOL SCIENCE; *ENERGY CONSERVATION; *INSTRUCTIONAL MATERIALS; *SCHOOL ACTIVITIES; *SCIENCE EDUCATION; *SCIENCE FAIRS; *SCIENCE PROJECTS

ISSUE: CIJE1977

ABSTRACT: DESCRIBES A SCHOOL PROJECT ON ENERGY CONSERVATION, IN WHICH FIFTH AND SIXTH GRADE STUDENTS INVOLVED THE TOWN COMMUNITY IN BECOMING AWARE OF THE EXTENT OF THE ENERGY SHORTAGE AND CONSIDERING MODES OF CUTTING DOWN ON ENERGY USAGE. INCLUDED ARE IDEAS FOR PROJECTS AND SCIENCE FAIRS. (CS)

JOURNAL CITATION: SCIENCE AND CHILDREN; 14: 7: 9-11

ACCESSION NUMBER: EJ161097

CLEARINGHOUSE ACCESSION NUMBER: SE519388

PUBLICATION DATE: MAY 77

TITLE: SOLAR POWER PLANTS: DARK HORSE IN THE ENERGY STABLE

PERSONAL AUTHOR: CAPUTO, RICHARD S.

DESCRIPTOR: *ENERGY; *NATURAL RESOURCES; *SOLAR RADIATION; *ECONOMICS; *ENERGY CONSERVATION

ISSUE: CIJE1977

ABSTRACT: TWELFTH IN A SERIES OF REPORTS ON SOLAR ENERGY, THIS ARTICLE PROVIDES INFORMATION RELATING TO THE FOLLOWING QUESTIONS: (1) ECONOMIC COST OF SOLAR-THERMAL-ELECTRIC CENTRAL POWER PLANTS; (2) COST COMPARISON WITH NUCLEAR OR COAL PLANTS; (3) LOCATIONS OF THIS ENERGY SOURCE; AND (4) ITS USE AND SOCIAL COSTS. (CS)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 33: 9: 48-56

ACCESSION NUMBER: EJ161108

CLEARINGHOUSE ACCESSION NUMBER: SE519399

PUBLICATION DATE: MAY 77

TITLE: ENERGY IS ELEMENTARY

PERSONAL AUTHOR: CAREY, HELEN M.

DESCRIPTOR: *CURRICULUM; *ELEMENTARY EDUCATION; *ELEMENTARY SCHOOL SCIENCE; *ENERGY; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *ENERGY CONSERVATION; *GRADE 1; *GRADE 2; *SCIENCE MATERIALS

ISSUE: CIJE1977

ABSTRACT: ENCOURAGES ELEMENTARY SCHOOL TEACHERS TO DEVELOP ENERGY EDUCATION MATERIALS, DESCRIBING THE INITIAL PHASES OF A NATIONAL SCIENCE TEACHERS ASSOCIATION (NSTA) SPONSORED PROJECT IN ENERGY EDUCATION. TWO LEARNING PACKETS, THE ENERGY WE USE (GRADE 1) AND COMMUNITY WORKERS AND THE ENERGY THEY USE (GRADE 2), ARE DESCRIBED. MAILING LIST INFORMATION INCLUDED. (CS)

JOURNAL CITATION: SCIENCE AND CHILDREN; 14: 8: 23-24

ACCESSION NUMBER: EJ161140

CLEARINGHOUSE ACCESSION NUMBER: SE519471

PUBLICATION DATE: JUN 77

TITLE: CONTROLLING WEAPONS--GRADE FISSILE MATERIAL

PERSONAL AUTHOR: ROTBLAT, J.

DESCRIPTOR: *FUTURES (OF SOCIETY); *NUCLEAR PHYSICS; *TECHNOLOGICAL ADVANCEMENTS; *WORLD AFFAIRS; *WORLD PROBLEMS; *NUCLEAR WARFARE; *PHYSICS; *NUCLEAR ENERGY; *NUCLEAR POWER

ISSUE: CIJE1977

ABSTRACT: DISCUSSES THE PROBLEMS OF CONTROLLING WEAPONS--GRADE FISSIONABLE MATERIAL. PROJECTIONS OF THE GROWTH OF FISSION NUCLEAR REACTORS INDICATES SUFFICIENT MATERIALS WILL BE AVAILABLE TO CONSTRUCT 300,000 ATOMIC BOMBS EACH CONTAINING 10 KILOGRAMS OF PLUTONIUM BY 1990. (SL)

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 33: 6: 37-43

ACCESSION NUMBER: EJ161409

CLEARINGHOUSE ACCESSION NUMBER: UD505129

PUBLICATION DATE: JAN-FEB 77

TITLE: INVISIBLE AGAIN: BLACKS AND THE ENERGY CRISIS

PERSONAL AUTHOR: BROWN, GEORGE L.

DESCRIPTOR: *BLACKS; *ENERGY; *ENERGY CONSERVATION; *PUBLIC POLICY; *BLACK ROLE; *BLACK COMMUNITY; *CONSUMER EDUCATION; *POLICY FORMATION

ISSUE: CIJE1977

ABSTRACT: EMPHASIZES THE IMPORTANCE OF UNDERSTANDING ALL THE IMPLICATIONS OF ANY NATIONAL ENERGY POLICY. SUCH A POLICY WILL HAVE A PROFOUND EFFECT ON BLACK EMPLOYMENT, HOUSING, ETC. (PR)

JOURNAL CITATION: SOCIAL POLICY; 7: 4: 39-42

ACCESSION NUMBER: EJ162202

CLEARINGHOUSE ACCESSION NUMBER: EA508711

PUBLICATION DATE: JUL 77

TITLE: PUTTING PSECS TO WORK

DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION; *MODELS; *ELECTRICITY; *LIFE CYCLE COSTING; *BUILDING OPERATIONS; *ELEMENTARY SECONDARY EDUCATION; *HIGHER EDUCATION; *PUBLIC SCHOOLS ENERGY CONSERVATION SERVICE; *NEW YORK; *PSECS

ISSUE: CIJE1977

ABSTRACT: A MODEL ENERGY CONSERVATION PROGRAM ANALYZES SCHOOL ENERGY USAGE AND COMPUTES THE POTENTIAL SAVINGS THAT COULD BE REALIZED THROUGH OPERATIONAL AND CAPITAL IMPROVEMENTS. (AUTHOR/NLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 9: 14-15

ACCESSION NUMBER: EJ162205

CLEARINGHOUSE ACCESSION NUMBER: EA508714

PUBLICATION DATE: JUL 77

TITLE: SAVINGS CAN PAY COST OF INSULATION

PERSONAL AUTHOR: BOKELMANN, STANLEY O.

DESCRIPTOR: *ENERGY CONSERVATION; *ROOFING; *PLASTICS; *COST EFFECTIVENESS; ARCHITECTURAL ELEMENTS; *INSULATION

ISSUE: CIJE1977

ABSTRACT: THE CLARK COUNTY SCHOOL DISTRICT IN LAS VEGAS, NEVADA, HAS SUCCESSFULLY USED URETHANE ROOFING TO LOWER MECHANICAL AND ELECTRICAL EXPENSES. (MLP)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 9: 24-25

ACCESSION NUMBER: EJ162206

CLEARINGHOUSE ACCESSION NUMBER: EA508715

PUBLICATION DATE: JUL 77

TITLE: GOOD ROOFS SAVE ENERGY

PERSONAL AUTHOR: MERTZ, EDWIN

DESCRIPTOR: *ROOFING; *ENERGY CONSERVATION; *SCHOOL MAINTENANCE; ARCHITECTURAL ELEMENTS; CHECK LIST; *INSULATION

ISSUE: CIJE1977

ABSTRACT: CHECKLISTS OF PROBLEMS TO LOOK FOR DURING AN INSPECTION CAN HELP KEEP ROOFS PROPERLY MAINTAINED AS ENERGY SAVING DEVICES. (AUTHOR/MLP)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 9: 32-33

ACCESSION NUMBER: EJ162207

CLEARINGHOUSE ACCESSION NUMBER: EA508716

PUBLICATION DATE: JUL 77

TITLE: HOW TO PROTECT YOURSELF FROM UNQUALIFIED CONTRACTORS

PERSONAL AUTHOR: ARENS, JOHN G.; JONES, S. HAROLD

DESCRIPTOR: *BIDS; *ENERGY CONSERVATION; *SYSTEMS APPROACH; *PERFORMANCE SPECIFICATIONS; *STANDARDS; ELECTRONIC EQUIPMENT; HIGHER EDUCATION

ISSUE: CIJE1977

ABSTRACT: A PREQUALIFICATION PROCESS THAT CAN BE USED EFFECTIVELY ON ANY PROJECT WHERE AN INSTITUTION NEEDS TO ASSURE THE STANDARDS OF CONTRACTORS AND NOT BE SUBJECTED TO A STRAIGHT, LOW-BID SITUATION. (AUTHOR/MLP)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 9: 34-35

ACCESSION NUMBER: EJ162208

CLEARINGHOUSE ACCESSION NUMBER: EA508717

PUBLICATION DATE: JUL 77

TITLE: SETBACK VS. SHUTDOWN: THE CASE FOR MAY

PERSONAL AUTHOR: EATON, MAXWELL

DESCRIPTOR: *FUEL CONSUMPTION; *COST EFFECTIVENESS; *SCHOOL CALENDARS; ENERGY CONSERVATION; TEMPERATURE; HIGHER EDUCATION; ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1977

ABSTRACT: ANALYSIS OF COSTS PROVES THAT A COMPLETE SHUTDOWN IN MAY MIGHT CONSERVE MORE FUEL THAN AN EXTENDED WINTER VACATION. (AUTHOR)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 9: 36-38

ACCESSION NUMBER: EJ162251

CLEARINGHOUSE ACCESSION NUMBER: EA508761

PUBLICATION DATE: JUN 77

TITLE: SOLAR ENERGY

DESCRIPTOR: *SOLAR RADIATION; *SCHOOL DESIGN; *ENERGY CONSERVATION; *COST EFFECTIVENESS; *PERFORMANCE SPECIFICATIONS; BUILDING INNOVATION; ELEMENTARY EDUCATION; HIGHER EDUCATION; VOCATIONAL SCHOOLS

ISSUE: CIJE1977

ABSTRACT: DESCRIBES 23 COMPLETED PROJECTS NOW USING SOLAR ENERGY FOR HEATING, COOLING OR ELECTRICITY. INCLUDED ARE ELEMENTARY SCHOOLS IN ATLANTA AND SAN DIEGO, A TECHNICAL SCHOOL IN DETROIT, AND TRINITY UNIVERSITY IN SAN ANTONIO, TEXAS. (MLP)

JOURNAL CITATION: BUILDING DESIGN AND CONSTRUCTION: 18: 6: 28-31

ACCESSION NUMBER: EJ162987

CLEARINGHOUSE ACCESSION NUMBER: HE508931

PUBLICATION DATE: FEB 77

TITLE: ENERGY CONSCIOUS DESIGN IN SCHOOLS OF ARCHITECTURE

PERSONAL AUTHOR: VILLECCO, MARGUERITE

DESCRIPTOR: *ENERGY CONSERVATION; *PHYSICAL DESIGN NEEDS; *TEACHING METHODS; *INTERIOR DESIGN; *ARCHITECTURAL EDUCATION; *ARCHITECTURAL CHARACTER; HIGHER EDUCATION; EDUCATIONAL THEORIES; ARCHITECTS

ISSUE: CIJE1977

ABSTRACT: MAJOR FINDINGS ARE SUMMARIZED OF AN INVESTIGATION OF ENERGY DESIGN TEACHING IN SCHOOLS OF ARCHITECTURE, WHICH LED TO RECOMMENDATIONS DESCRIBED IN THIS ARTICLE ADDRESSED TO THEORETICAL AND INSPIRATIONAL MODELS OF DESIGN TEACHING RATHER THAN TO TECHNICAL COURSES. AVAILABLE FROM: ACSA, 1735 NEW YORK AVE., WASHINGTON, D.C. 20006. (AUTHOR/LRH)

JOURNAL CITATION: JOURNAL OF ARCHITECTURAL EDUCATION: 30: 3: 6-10

ACCESSION NUMBER: EJ162580

CLEARINGHOUSE ACCESSION NUMBER: HE508932

PUBLICATION DATE: FEB 77

TITLE: OPTIMUM BUILDING SHAPES FOR ENERGY CONSERVATION

PERSONAL AUTHOR: BERKOZ, ESHER BALKAN

DESCRIPTOR: *ARCHITECTURE; *ENERGY CONSERVATION; *PHYSICAL DESIGN NEEDS; *CONSTRUCTION (PROCESS); *CLIMATIC FACTORS; *THERMAL ENVIRONMENT; HIGHER EDUCATION; SOLAR RADIATION; ARCHITECTURAL EDUCATION; BIBLIOGRAPHIES; ISTANBUL TECHNICAL UNIVERSITY; TURKEY

ISSUE: CIJE1977

ABSTRACT: AN APPROACH TO OPTIMUM BUILDING SHAPE DESIGN IS SUMMARIZED THAT IS BASED ON LOCAL CLIMATE AND IS ESPECIALLY IMPORTANT FOR HEAT CONTROL IN LOWER COST CONSTRUCTION WITH TEMPERATURE-RESPONSIVE THERMAL CHARACTERISTICS. THE STUDY WAS SUPPORTED BY ISTANBUL TECHNICAL UNIVERSITY. FOR JOURNAL AVAILABILITY SEE HE 508 931. (AUTHOR/LRH)

JOURNAL CITATION: JOURNAL OF ARCHITECTURAL EDUCATION: 30: 3: 25-31

ACCESSION NUMBER: EJ162589

CLEARINGHOUSE ACCESSION NUMBER: HE508933

PUBLICATION DATE: FEB 77

TITLE: OBSERVATIONS ON ENERGY USE IN BUILDINGS

PERSONAL AUTHOR: STEIN, RICHARD G.

DESCRIPTOR: *ENERGY CONSERVATION; *COST EFFECTIVENESS; *PHYSICAL DESIGN NEEDS; *ECOLOGICAL FACTORS; *FUEL CONSUMPTION; *BUILDINGS; HIGHER EDUCATION; ARCHITECTURAL EDUCATION; CONSTRUCTION COSTS; BIBLIOGRAPHIES

ISSUE: CIJE1977

ABSTRACT: ENERGY CONSERVATION MEASURES IN BUILDING DESIGN AND USE ARE ADVOCATED AS THE MOST COST-EFFECTIVE AND AVAILABLE OPTION TO REDUCE NATIONAL ENERGY SUPPLY REQUIREMENTS. FOR JOURNAL AVAILABILITY SEE HE 508 931. (LRH)

JOURNAL CITATION: JOURNAL OF ARCHITECTURAL EDUCATION: 30: 3: 36-41

ACCESSION NUMBER: EJ162590

CLEARINGHOUSE ACCESSION NUMBER: HE508934

PUBLICATION DATE: FEB 77

TITLE: BUILDING STANDARDS AND CODES FOR ENERGY CONSERVATION

PERSONAL AUTHOR: GROSS, JAMES G.; PIERLERT, JAMES H.

DESCRIPTOR: *PHYSICAL DESIGN NEEDS; *ENERGY CONSERVATION; *ECOLOGICAL FACTORS; *STANDARDS; *BUILDING DESIGN; *CONSTRUCTION (PROCESS); HIGHER EDUCATION; ARCHITECTURAL EDUCATION; FUEL CONSUMPTION; NATIONAL BUREAU OF STANDARDS

ISSUE: CIJE1977

ABSTRACT: CURRENT ACTIVITY INTENDED TO LEAD TO ENERGY CONSERVATION MEASURES IN BUILDING CODES AND STANDARDS IS REVIEWED BY MEMBERS OF THE OFFICE OF BUILDING STANDARDS AND CODES SERVICES OF THE NATIONAL BUREAU OF STANDARDS. FOR JOURNAL AVAILABILITY SEE HE 508 931. (LRH)

JOURNAL CITATION: JOURNAL OF ARCHITECTURAL EDUCATION: 30: 3: 54-7

ACCESSION NUMBER: EJ162910

CLEARINGHOUSE ACCESSION NUMBER: SE519083

PUBLICATION DATE: 77

TITLE: THE ILLINOIS STATE PLAN FOR ENVIRONMENTAL EDUCATION AND ENERGY CONSERVATION

PERSONAL AUTHOR: ZALEWSKI, LEON J.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *FUNDAMENTAL CONCEPTS; *LEARNING ACTIVITIES; *SECONDARY GRADES; *STATE PROGRAMS; CONSERVATION (ENVIRONMENT); CURRICULUM

DEVELOPMENT; INSTRUCTION; SCIENCE EDUCATION; ILLINOIS

ISSUE: CIJE1977

ABSTRACT: THE FIVE BROAD CONCEPTUAL THEMES FOR ENVIRONMENTAL EDUCATION AND ENERGY CONSERVATION RECOMMENDED BY THE ILLINOIS STATE PLAN FOR ENVIRONMENTAL EDUCATION FOR DEVELOPING AND IMPLEMENTING ENVIRONMENTAL EDUCATION INTO ALL SCHOOL SUBJECTS ARE LISTED. SUGGESTED ACTIVITIES FOR THE JUNIOR AND SENIOR HIGH LEVELS ARE PRESENTED. (BT)

JOURNAL CITATION: JOURNAL OF ENVIRONMENTAL EDUCATION: 8: 31 1-10

ACCESSION NUMBER: EJ162939

CLEARINGHOUSE ACCESSION NUMBER: SES19317

PUBLICATION DATE: MAR 77

TITLE: THE CASE FOR THE LARGE SCALE DEVELOPMENT OF SOLAR ENERGY

PERSONAL AUTHOR: O'REILLY, S. A.

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ENVIRONMENT; *ENERGY; *INSTRUCTIONAL MATERIALS; *SOLAR RADIATION; *SCIENCE EDUCATION; *SECONDARY EDUCATION; NATURAL RESOURCES; SOLAR ENERGY

ISSUE: CIJE1977

ABSTRACT: TRACES THE HISTORY OF SOLAR ENERGY DEVELOPMENT, DISCUSSES GLOBAL EFFECTS (TEMPERATURE, PARTICLE AND OTHER POLLUTION) OF BURNING FOSSIL FUELS, PROVIDES ENERGY BALANCE EQUATIONS FOR SOLAR ENERGY DISTRIBUTION AND DISCUSSES FLAT PLATE COLLECTORS, SOLAR CELLS, PHOTOCHEMICAL AND PHOTOBIOLOGICAL CONVERSION OF SOLAR ENERGY, HEAT PUMPS. (CS)

JOURNAL CITATION: SCHOOL SCIENCE REVIEW: 55: 204: 414-427

ACCESSION NUMBER: EJ163051

CLEARINGHOUSE ACCESSION NUMBER: SES19694

PUBLICATION DATE: 77

TITLE: TOWARD GOALS FOR MULTIDISCIPLINARY ENERGY EDUCATION

PERSONAL AUTHOR: ALLEN, RODNEY F.; AND OTHERS

DESCRIPTOR: *CURRICULUM DEVELOPMENT; *ENERGY; *ENVIRONMENTAL EDUCATION; *FUNDAMENTAL CONCEPTS; *INTERDISCIPLINARY APPROACH; CONSERVATION (ENVIRONMENT); ENERGY CONSERVATION; ENVIRONMENT; INSTRUCTIONAL MATERIALS; OBJECTIVES; SCIENCE EDUCATION; FLORIDA

ISSUE: CIJE1977

ABSTRACT: AFTER REVIEWING (1) THE CAUSES OF THE ENERGY CRISIS, (2) THE GOAL THE NATIONAL ENERGY PLAN DEVELOPED BY ERDA, AND (3) THREE ROUTES TO BRING ABOUT ENERGY CONSERVATION, THE AUTHORS PRESENT THE FUNDAMENTAL CONCEPTS (MAIN IDEAS) FROM A CONSERVATION-ORIENTED ENERGY EDUCATION CURRICULUM DEVELOPED AT FLORIDA STATE UNIVERSITY. (BT)

JOURNAL CITATION: JOURNAL OF ENVIRONMENTAL EDUCATION: 8: 41 8-17

ACCESSION NUMBER: EJ163196

CLEARINGHOUSE ACCESSION NUMBER: SP505817

PUBLICATION DATE: MAR 77

TITLE: AN NRPA INTERVIEW WITH CONGRESSMAN MORRIS K. UDALL

DESCRIPTOR: *LAND USE; *CONSERVATION (ENVIRONMENT); *RECREATIONAL FACILITIES; *GOVERNMENT ROLE; *NATURAL RESOURCES; ENERGY CONSERVATION; ENVIRONMENTAL CRITERIA; RECREATION LEGISLATION; FINANCIAL POLICY; COOPERATIVE PLANNING; UDALL (MORRIS K)

ISSUE: CIJE1977

ABSTRACT: CONGRESSMAN UDALL DISCUSSES THE PLANS AND PRIORITIES OF THE HOUSE COMMITTEE ON INTERIOR AND INSULAR AFFAIRS WHICH HAS JURISDICTION OVER MOST PARK AND RECREATION LEGISLATION, AS WELL AS LAND-USE AND ENERGY ISSUES. (JD)

JOURNAL CITATION: PARKS AND RECREATION: 12: 31 42-5

ACCESSION NUMBER: EJ164144

CLEARINGHOUSE ACCESSION NUMBER: EA508793

PUBLICATION DATE: AUG 77

TITLE: SOME SUNSHINE FOR YOUR FISCAL LIFE: SOLAR ENERGY SCHOOLS MAY NOT BE AS FAR OFF OR AS BLUE SKY AS WE'VE THOUGHT

PERSONAL AUTHOR: DOWNEY, GREGG W.

DESCRIPTOR: *SOLAR RADIATION; *SCHOOL BUILDINGS; *ENERGY CONSERVATION; *BUILDING DESIGN; ELEMENTARY SECONDARY EDUCATION; PROGRAM DESCRIPTIONS

ISSUE: CIJE1978

ABSTRACT: DOZENS OF SCHOOLS THROUGHOUT NORTH AMERICA ALREADY ARE PUTTING SOLAR EQUIPMENT TO LIMITED USES. SCORES ARE CONDUCTING OR CONTEMPLATING SOLAR FEASIBILITY STUDIES, AND AT LEAST ONE SCHOOL NOW IN OPERATION IS APPLYING SOLAR POWER TO EVERY PHASE OF ITS ENERGY PROGRAM. (AUTHOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AMERICAN SCHOOL BOARD JOURNAL: 164: 81

54-60

ACCESSION NUMBER: EJ164156

CLEARINGHOUSE ACCESSION NUMBER: EA508805

PUBLICATION DATE: AUG 77

TITLE: CLASSROOMS OFFER QUIET ACADEMIC ENVIRONMENT

PERSONAL AUTHOR: GARBRECHT, MARILYN

DESCRIPTOR: *BUILDING INNOVATION; *ACOUSTICAL ENVIRONMENT; *ENERGY CONSERVATION; *SOLAR RADIATION; COLLEGE BUILDINGS; ACOUSTIC INSULATION; FLEXIBLE FACILITIES; MOVABLE PARTITIONS; STATE UNIVERSITIES; HIGHER EDUCATION; *UNDERGROUND BUILDINGS

ISSUE: CIJE1978

ABSTRACT: A BUILDING SHELL AT SOUTHERN ILLINOIS UNIVERSITY HAS PARTITIONS THAT CAN BE REPOSITIONED TO SUIT CHANGING NEEDS. SILENCING, HEATING, AND COOLING EQUIPMENT RECEIVED CLOSE ATTENTION TO ELIMINATE NOISE. THE UNIVERSITY OF MINNESOTA HAS A NEW UNDERGROUND BUILDING HOUSING A BOOKSTORE AND OFFICES THAT DOES NOT REQUIRE HEATING. (AUTHOR/MLF)

JOURNAL CITATION: CONSULTING ENGINEER: 49: 21 106,108,110,112

ACCESSION NUMBER: EJ164177

CLEARINGHOUSE ACCESSION NUMBER: EA508826

PUBLICATION DATE: AUG 77

TITLE: LOW VOLTAGE LIBRARY

DESCRIPTOR: *COLLEGE LIBRARIES; *ENERGY CONSERVATION; *BUILDING DESIGN; *ILLUMINATION LEVELS; HIGHER EDUCATION; LIGHTING DESIGN; WILLIAMS COLLEGE; MASSACHUSETTS (WILLIAMSTOWN)

ISSUE: CIJE1978

ABSTRACT: NATURAL LIGHT AND LOW LIGHTING LEVELS WITH INDIVIDUAL TASK LEVEL LAMPS CONTRIBUTE TO A LOW ENERGY USE AT THE SAWYER LIBRARY. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 121 56-57

ACCESSION NUMBER: EJ164178

CLEARINGHOUSE ACCESSION NUMBER: EA508827

PUBLICATION DATE: AUG 77

TITLE: GETTING ENERGY USE UNDER CONTROL

PERSONAL AUTHOR: PIPER, JAMES E.

DESCRIPTOR: *ENERGY CONSERVATION; *OPERATIONS RESEARCH; *MANAGEMENT SYSTEMS; *UTILITIES; ILLUMINATION LEVELS; *UNIVERSITY OF AKRON; OHIO (AKRON)

ISSUE: CIJE1978

ABSTRACT: AN ENERGY MANAGEMENT PROGRAM WAS RESULTED IN AN ENERGY REDUCTION, COMPARED WITH FIGURES OF THREE YEARS AGO, OF 28 PERCENT IN ELECTRICITY AND 37 PERCENT IN NATURAL GAS. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 49: 121 60-63

ACCESSION NUMBER: EJ164941

CLEARINGHOUSE ACCESSION NUMBER: SES19709

PUBLICATION DATE: AUG 77

TITLE: BIOLOGICAL SOURCES OF COMMERCIAL ENERGY

PERSONAL AUTHOR: HAYES, DENIS

DESCRIPTOR: *AGRICULTURE; *BIOLOGY; *ENERGY; *NATURAL RESOURCES; BOTANY; CHEMISTRY; RESOURCE MATERIALS

ISSUE: CIJE1978

ABSTRACT: EXAMINES PROPOSALS FOR ENERGY PRODUCTION FROM ORGANIC SUBSTANCES SUCH AS WASTES, TREES, AND GRAIN AND FORAGE CROPS. DESCRIBES TECHNIQUES OF ENERGY EXTRACTION FROM THESE SUBSTANCES. (CP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: BIOSCIENCE: 27: 81 540-546

ACCESSION NUMBER: EJ165221

CLEARINGHOUSE ACCESSION NUMBER: AA526329

PUBLICATION DATE: APR 77

TITLE: ENERGY MANAGEMENT: A CRISIS IN INDUSTRY

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *DEPLETED RESOURCES; *INDUSTRY; *MANAGEMENT; TECHNOLOGICAL ADVANCEMENT; CONSUMER EDUCATION; FUEL CONSUMPTION

ISSUE: CIJE1978

ABSTRACT: ARTICLE STATES THAT "THE INDIVIDUAL, SUPERVISOR, AND MANAGER MUST TAKE THE LEAD IN SAVING ENERGY IN INDUSTRIAL SETTINGS BECAUSE THAT IS WHERE THE GREATEST AMOUNTS OF ENERGY ARE CONSUMED." (AUTHOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: INTELLECT: 105; 2303; 352-4

ACCESSION NUMBER: EJ165233

CLEARINGHOUSE ACCESSION NUMBER: AA526341

PUBLICATION DATE: APR 30 '77

TITLE: SCHOOL WITHOUT SCHOOLS

PERSONAL AUTHOR: HECHINGER, FRED M.

DESCRIPTOR: *SCHOOL CLOSING; *FLEXIBLE FACILITIES; *EXPERIMENTAL PROGRAMS; *SCHOOL COMMUNITY COOPERATION; *EDUCATIONAL ALTERNATIVES; *SCHOOL ADMINISTRATION; *INSTRUCTIONAL MEDIA; *EDUCATIONAL COORDINATION; *CREATIVE TEACHING

ISSUE: CIJE1978

ABSTRACT: COLUMBUS OHIO'S UNORTHODOX EXPERIMENT IN THE FACT OF WINTER FUEL SHORTAGES OFFERS SOME HIGHLY PERSUASIVE LESSONS FOR LONG-TERM SCHOOL REFORM. (AUTHOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SATURDAY REVIEW: 4; 15; 12,14-16

ACCESSION NUMBER: EJ165766

CLEARINGHOUSE ACCESSION NUMBER: CS714174

PUBLICATION DATE: APR-MAY 77

TITLE: JOURNALISM CENTRAL EMERGES AS ENERGY CRISIS CLOSES SCHOOLS, INDUSTRIES

PERSONAL AUTHOR: GALL, CAROL ANN; CUSICK, DENNY

DESCRIPTOR: *JOURNALISM EDUCATION; *STUDENT PUBLICATIONS; *NEWS REPORTING; *NEWS WRITING; *SCHOOL NEWSPAPERS; *SECONDARY EDUCATION; *JOURNALISM; *NEWS MEDIA; *OHIO

ISSUE: CIJE1978

ABSTRACT: DISCUSSES HOW STUDENT JOURNALISTS PROVIDED COVERAGE AND ANSWERS FOR HIGH SCHOOL PUBLICATIONS DURING THE ENERGY CRISIS THAT CRIPPLED OHIO IN THE LATE WINTER OF 1977. (MB)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: QUILL AND SCROLL: 91; 4; 4-6

ACCESSION NUMBER: FJ165844

CLEARINGHOUSE ACCESSION NUMBER: EA508897

PUBLICATION DATE: SEP 77

TITLE: SCIENCE CENTER GOES UNDERGROUND

DESCRIPTOR: *SCIENCE TEACHING CENTERS; *ENERGY CONSERVATION; *BUILDING INNOVATION; *HIGHER EDUCATION; *UNDERGROUND BUILDINGS; *BLUFFTON COLLEGE

ISSUE: CIJE1978

ABSTRACT: A UNIQUE UNDERGROUND SCIENCE CENTER AT BLUFFTON COLLEGE, DESIGNED TO SAVE ENERGY AND PRESERVE TREES, ROLLING LANDSCAPE, AND OTHER ENVIRONMENTAL FEATURES OF THE CAMPUS, IS UNDER CONSTRUCTION IN BLUFFTON, OHIO. (AUTHOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: MODERN SCHOOLS: 8-9

ACCESSION NUMBER: EJ165849

CLEARINGHOUSE ACCESSION NUMBER: EA508903

PUBLICATION DATE: SEP 77

TITLE: MANAGING THE ENERGY DILEMMA

PERSONAL AUTHOR: HAYES, JAMES L.

DESCRIPTOR: *ENERGY CONSERVATION; *TRANSPORTATION; *EFFICIENCY; *LIGHTING; *GUIDELINES; *ELEMENTARY SECONDARY EDUCATION; *HIGHER EDUCATION

ISSUE: CIJE1978

ABSTRACT: ENERGY CONSERVATION GUIDES ARE SUGGESTED THAT WILL MAKE IT EASIER, AND MUCH LESS EXPENSIVE, FOR SCHOOLS AND UNIVERSITIES TO COPE WITH THE FUEL CRISIS. (AUTHOR/HLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 50; 1; 16,18

ACCESSION NUMBER: EJ165851

CLEARINGHOUSE ACCESSION NUMBER: EA508905

PUBLICATION DATE: SEP 77

TITLE: ONE WAY TO HOLD THE LINE ON ENERGY COST

PERSONAL AUTHOR: DICKEY, WILLIAM K., JR.

DESCRIPTOR: *COST EFFECTIVENESS; *BUDGETING; *UTILITIES; *THERMAL ENVIRONMENT; *SCHOOL ACCOUNTING; *ADMINISTRATION RESPONSIBILITY; *EDUCATIONAL FINANCE; *ELEMENTARY SECONDARY EDUCATION; *ENERGY CONSERVATION

ISSUE: CIJE1978

ABSTRACT: SCHOOLS IN ALACHUA COUNTY, GAINESVILLE, FLORIDA, DEMONSTRATE THAT DECENTRALIZING THE UTILITY BUDGET TO THE LOCAL SCHOOL LEVEL PROVIDES AN INCENTIVE FOR THE SCHOOL PRINCIPAL TO CONSERVE ENERGY. (AUTHOR/HLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 50; 1; 265-275

ACCESSION NUMBER: EJ165856

CLEARINGHOUSE ACCESSION NUMBER: EA508910

PUBLICATION DATE: SEP 77

TITLE: FABRIC STRUCTURES GROW UP

PERSONAL AUTHOR: ROBISON, RITA

DESCRIPTOR: *ENCAPSULATED FACILITIES; *BUILDING INNOVATION; *AIR STRUCTURES; *PHYSICAL EDUCATION FACILITIES; *COST EFFECTIVENESS; *FLEXIBLE FACILITIES; *BUILDING MATERIALS; *RECREATIONAL FACILITIES; *ENERGY CONSERVATION

ISSUE: CIJE1978

ABSTRACT: FABRIC ROOFS CAN SPAN GREAT DISTANCES AT FAR LESS COST THAN CONVENTIONAL ROOFS. SEVEN ATHLETIC FACILITIES AND ONE SECONDARY SCHOOL ARE FEATURED. (AUTHOR/HLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 50; 1; 46-48,50,54,56,58

ACCESSION NUMBER: EJ165858

CLEARINGHOUSE ACCESSION NUMBER: EA508912

PUBLICATION DATE: JUL-AUG 77

TITLE: BEFORE BRIGHT SUMMER DAYS FADE TO FALL, WILL YOU HAVE PLANS TO WEATHER WINTER?

DESCRIPTOR: *HEATING; *ENERGY CONSERVATION; *ELEMENTARY SECONDARY EDUCATION; *EDUCATIONAL PLANNING; *SCHOOL BUILDINGS

ISSUE: CIJE1978

JOURNAL CITATION: UPDATING SCHOOL BOARD POLICIES: 8; 78; 1-2,4

ACCESSION NUMBER: EJ165908

CLEARINGHOUSE ACCESSION NUMBER: EA509029

PUBLICATION DATE: OCT 77

TITLE: "OPERATION CONSERVE": A WINNER ON CANADIAN CAMPUS

DESCRIPTOR: *ENERGY CONSERVATION; *UTILITIES; *SYSTEMS APPROACH; *FUEL CONSUMPTION; *ELECTRICAL SYSTEMS; *ILLUMINATION LEVELS; *HIGHER EDUCATION; *HEAT RECOVERY; *UNIVERSITY OF WESTERN ONTARIO; *ONTARIO

ISSUE: CIJE1978

ABSTRACT: STARTED IN LATE 1972, "OPERATION CONSERVE" HAS LED TO A CENTRAL CONTROL SYSTEM AND REDUCED LIGHTING METHODS THAT HAVE CUT THE UNIVERSITY OF WESTERN ONTARIO'S ENERGY USE BY 15 PERCENT. (AUTHOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: MODERN SCHOOLS: 4-7

ACCESSION NUMBER: EJ165910

CLEARINGHOUSE ACCESSION NUMBER: EA509031

PUBLICATION DATE: OCT 77

TITLE: SCHOOLS SEEK WAYS TO BECOME ENERGY EFFICIENT

DESCRIPTOR: *ENERGY CONSERVATION; *SYSTEMS APPROACH; *ILLUMINATION LEVELS; *HEAT RECOVERY; *HIGHER EDUCATION

ISSUE: CIJE1978

ABSTRACT: AS A RESULT OF THE ENERGY CRISIS, SCHOOLS ACROSS THE NATION ARE INSTITUTING PROGRAMS TO BECOME MORE ENERGY-EFFICIENT WITH ENCOURAGING AND MONEY-SAVING RESULTS. (AUTHOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: MODERN SCHOOLS: 10

ACCESSION NUMBER: EJ165911

CLEARINGHOUSE ACCESSION NUMBER: EA509032

PUBLICATION DATE: OCT 77

TITLE: QUICK FIX: GOVERNMENT PROGRAM FOR ENERGY CONSERVATION

DESCRIPTOR: *ENERGY CONSERVATION; *CHECK LISTS; *FEDERAL GOVERNMENT; *ELEMENTARY SECONDARY EDUCATION; *HIGHER EDUCATION

ISSUE: CIJE1978

ABSTRACT: ENERGY REDUCTION MEASURES RECOMMENDED BY THE GOVERNMENT HAVE NEGLIGIBLE COST TO THE SCHOOL AND PROVIDE CONSIDERABLE SAVINGS. (AUTHOR/NLP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: MODERN SCHOOLS; 11

ACCESSION NUMBER: EJ165912

CLEARINGHOUSE ACCESSION NUMBER: EA509033

PUBLICATION DATE: OCT 77

TITLE: WHAT'S NEW IN MODERN SCHOOLS

DESCRIPTOR: *ENERGY CONSERVATION; *LIGHTING DESIGN; *SCHOOL DESIGN; *SECONDARY EDUCATION; *OPEN PLAN SCHOOLS; *JUNIOR HIGH SCHOOLS

ISSUE: CIJE1978

ABSTRACT: TWO NEW SCHOOLS, DUNBAR HIGH SCHOOL IN WASHINGTON, D.C. AND THE OLD WEST END JUNIOR HIGH SCHOOL IN TOLEDO, OHIO, ARE DESCRIBED, ALONG WITH A LIGHT FIXTURE THAT CONVERTS AN INCANDESCENT FIXTURE TO FLUORESCENT LIGHT. (AUTHOR/NLP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: MODERN SCHOOLS; 12-13

ACCESSION NUMBER: EJ166537

CLEARINGHOUSE ACCESSION NUMBER: SE519637

PUBLICATION DATE: JUN-AUG 77

TITLE: A LOOK AT THE ENVIRONMENTAL MOVEMENT IN EUROPE: NOTES FROM A RECENT TRIP

PERSONAL AUTHOR: MCCLOSKEY, MICHAEL

DESCRIPTOR: *ENVIRONMENT; *FOREIGN COUNTRIES; *GOVERNMENT ROLE; *POLITICAL ISSUES; *WORLD PROBLEMS; *ENERGY; *LAND USE; *POLLUTION; *EUROPE

ISSUE: CIJE1978

ABSTRACT: GOVERNMENT POLICIES CONCERNING THE ENVIRONMENT IN ITALY, SPAIN, GERMANY, AND SWITZERLAND ARE PRESENTED. THE GROWING ENVIRONMENTAL MOVEMENT IN THESE COUNTRIES IS DESCRIBED. AREAS OF CONFLICT AND CONCERN SUCH AS NUCLEAR POWER, LAND USE, AND AIR POLLUTION ARE DISCUSSED. (AJ)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SIERRA CLUB BULLETIN; 62; 6; 19-21

ACCESSION NUMBER: EJ166538

CLEARINGHOUSE ACCESSION NUMBER: SE519638

PUBLICATION DATE: JUN-AUG 77

TITLE: THE CARTER ENERGY PLAN

PERSONAL AUTHOR: COAN, GEORGE

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *FEDERAL LEGISLATION; *NATIONAL PROGRAMS; *PUBLIC POLICY; *NATURAL RESOURCES; *POLITICAL ISSUES; *PRESIDENT CARTER

ISSUE: CIJE1978

ABSTRACT: PLANS FOR THE IMPLEMENTATION OF A NATIONAL ENERGY POLICY ARE OUTLINED. PROPOSED MEASURES IN THE FOLLOWING AREAS ARE DISCUSSED: ENERGY CONSERVATION; ENERGY SYSTEMS AND RATES; ENERGY PRICING AND EQUITY; COAL, OIL AND GAS PRODUCTION; NUCLEAR AND SOLAR POWER; AND INDUSTRY STRUCTURE AND COMPETITION. CONCERNS OF ENVIRONMENTALISTS ARE EXPRESSED. (AJ)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SIERRA CLUB BULLETIN; 62; 6; 22-23

ACCESSION NUMBER: EJ166578

CLEARINGHOUSE ACCESSION NUMBER: SE519864

PUBLICATION DATE: SEP 77

TITLE: RADIANT ENERGY MEASUREMENT OF A SMALL LAMP

PERSONAL AUTHOR: OPPEGARD, MILO

DESCRIPTOR: *COLLEGE SCIENCE; *LIGHT; *PHYSICS; *SCIENCE ACTIVITIES; *HIGHER EDUCATION; *LABORATORY EXPERIMENTS; *PHYSICAL SCIENCES; *SCIENCE EDUCATION; *SECONDARY SCHOOL SCIENCE

ISSUE: CIJE1978

ABSTRACT: DESCRIBES A METHOD OF CALCULATING THE POWER APPLIED TO AN ELECTRIC LAMP BY USING A CALORIMETER TO MEASURE THE ENERGY RADIATED BY THE LAMP. (SL)

JOURNAL CITATION: PHYSICS TEACHER; 15; 6; 362-363

ACCESSION NUMBER: EJ166429

CLEARINGHOUSE ACCESSION NUMBER: SE519968

PUBLICATION DATE: SEP 77

TITLE: THE CLASSROOM TRAFFIC JAM

PERSONAL AUTHOR: EDWARDS, ARTHUR W.

DESCRIPTOR: *CONSERVATION EDUCATION; *ELEMENTARY EDUCATION; *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *LEARNING ACTIVITIES; *CONSERVATION (ENVIRONMENT); *INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; *SCIENCE ACTIVITIES; *SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: THE IMPORTANCE OF ENERGY CONSERVATION IS DEVELOPED IN THIS SIMULATION. CHILDREN DRAW AN AUTOMOBILE AND THEN ARE ASKED TO DRIVE IT THROUGH THE CLASSROOM ROADWAYS. WHEN A TRAFFIC JAM RESULTS, STUDENTS OFFER WAYS TO ELIMINATE IT. THE IMPORTANCE OF MASS TRANSPORTATION AND CAR POOLS IS STRESSED BY THE TEACHER. (MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE AND CHILDREN; 15; 1; 28-30

ACCESSION NUMBER: EJ166635

CLEARINGHOUSE ACCESSION NUMBER: SE519984

PUBLICATION DATE: OCT 77

TITLE: ENERGY SOLUTION IN CHINA

PERSONAL AUTHOR: SMIL, VACLAV

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *FUEL CONSUMPTION; *SANITATION; *WASTE DISPOSAL; *CONSERVATION (ENVIRONMENT); *FUELS; *NATURAL RESOURCES; *PEOPLES REPUBLIC OF CHINA

ISSUE: CIJE1978

ABSTRACT: FOR MORE THAN A DECADE, THE CHINESE HAVE BEEN USING BIOGAS DIGESTERS TO PRODUCE FUEL FOR HOMES IN RURAL AREAS. THIS ARTICLE DISCUSSES THE DESIGN, OPERATION, AND BENEFITS OF THESE DIGESTERS. THIS MEANS OF WASTE TREATMENT HELPS IMPROVE SANITATION, PRODUCE FERTILIZER, AND SAVE FOSSIL FUELS. (MA)

JOURNAL CITATION: ENVIRONMENT; 19; 7; 27-31

ACCESSION NUMBER: EJ166649

CLEARINGHOUSE ACCESSION NUMBER: 50505699

PUBLICATION DATE: JUL/AUG 77

TITLE: CHILDREN'S AWARENESS OF WATERGATE, BUSING, ENERGY, INFLATION, AND THE BICENTENNIAL

PERSONAL AUTHOR: DUFFEY, ROBERT V.; WEAVER, V. PHILLIPS

DESCRIPTOR: *SOCIAL STUDIES; *CURRENT EVENTS; *STUDENT ATTITUDES; *RESEARCH METHODOLOGY; *INTERMEDIATE GRADES; *ELEMENTARY EDUCATION; *EDUCATIONAL RESEARCH; *CONTROVERSIAL ISSUES

ISSUE: CIJE1978

ABSTRACT: A RESEARCH STUDY ASSESSED THE AWARENESS OF A GROUP OF FOURTH THROUGH SIXTH GRADERS ABOUT CURRENT EVENTS, INCLUDING BUSING, ENERGY, INFLATION, AND THE BICENTENNIAL. AWARENESS WAS FOUND TO DIFFER SIGNIFICANTLY ACCORDING TO LOCATION OF SCHOOL AND GRADE IN SCHOOL. CAUSES FOR THE DIFFERENCES MAY INCLUDE LIFE STYLE, CURRICULAR EMPHASES, AND TEACHER ATTITUDES. (AUTHOR/AV)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SOCIAL STUDIES; 68; 4; 160-4

ACCESSION NUMBER: EJ166697

CLEARINGHOUSE ACCESSION NUMBER: 50505747

PUBLICATION DATE: SEP/OCT 77

TITLE: GEOTHERMAL ENERGY POTENTIAL IN WESTERN UNITED STATES

PERSONAL AUTHOR: PRYDE, PHILIP R.

DESCRIPTOR: *GEOGRAPHY; *ENERGY; *NATURAL RESOURCES; *PHYSICAL GEOGRAPHY; *ECOLOGICAL FACTORS; *PHYSICAL ENVIRONMENT; *WATER RESOURCES; *EARTH SCIENCE; *HEAT; *RESEARCH PROBLEMS

ISSUE: CIJE1978

ABSTRACT: REVIEWS TYPES OF GEOTHERMAL ENERGY SOURCES IN THE WESTERN STATES, INCLUDING HOT BRINE SYSTEMS AND DRY STEAM SYSTEMS. CONVERSION TO ELECTRICAL ENERGY IS A MAJOR POTENTIAL USE OF GEOTHERMAL ENERGY, ALTHOUGH IT CREATES ENVIRONMENTAL DISRUPTIONS SUCH AS NOISE, CORROSION, AND SCALING OF EQUIPMENT. (AV)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: JOURNAL OF GEOGRAPHY; 76; 5; 170-4

ACCESSION NUMBER: EJ167232

CLEARINGHOUSE ACCESSION NUMBER: CE506802

PUBLICATION DATE: OCT 77

TITLE: ENERGY WAR IS GENERATING JOBS

PERSONAL AUTHOR: FIESTER, KENNETH

DESCRIPTOR: *EMPLOYMENT OPPORTUNITIES; *ENERGY CONSERVATION; *JOB DEVELOPMENT; *MANPOWER UTILIZATION; *BUILDING IMPROVEMENT; *FUEL CONSUMPTION; *SOLAR RADIATION

FUELS; EMPLOYMENT PROJECTIONS; CLIMATE CONTROL; INSULATION
ISSUE: CIJE1978

ABSTRACT: DESCRIBES VARIOUS ENERGY-RELATED PROJECTS AND LEGISLATION, WITH NEW JOB ESTIMATES, TO IMPROVE OR DESIGN BUILDINGS AND METHODS TO REDUCE THE ANNUAL GROWTH IN ENERGY CONSUMPTION BY REDUCING GASOLINE CONSUMPTION, CUTTING OIL IMPORTS, INCREASING COAL PRODUCTION, INSULATING BUILDINGS, AND INSTALLING SOLAR ENERGY DEVICES. (MF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: WORKLIFE: 2; 10; 14-20

ACCESSION NUMBER: EJ167233

CLEARINGHOUSE ACCESSION NUMBER: CE506803

PUBLICATION DATE: OCT 77

TITLE: SOLAR TECHNICIAN PROGRAM BLOWS HOT

PERSONAL AUTHOR: ZIEGLER, PEG MORAN

DESCRIPTOR: *SOLAR RADIATION; *BUILDING IMPROVEMENT; *ENERGY CONSERVATION; *PROJECT TRAINING METHODS; HEATING; TRAINING; JOB PLACEMENT; POST SECONDARY EDUCATION; TECHNICAL EDUCATION; PROGRAM DESCRIPTIONS; *SOLAR ENERGY TECHNICIANS; COMPREHENSIVE EMPLOYMENT AND TRAINING ACT; CETA; CALIFORNIA

ISSUE: CIJE1978

ABSTRACT: A TRAINING PROGRAM FOR SOLAR HEATING TECHNICIANS WAS INITIATED AT SONOMA STATE COLLEGE'S SCHOOL OF ENVIRONMENTAL STUDIES FOR CETA APPLICANTS. AMONG THE PROJECTS DESIGNED AND BUILT WERE A SOLAR ALTERNATIVE ENERGY CENTER, A SOLAR HOT WATER SYSTEM, AND A SOLAR GREENHOUSE. (MF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: WORKLIFE: 2; 10; 21-24

ACCESSION NUMBER: EJ167826

CLEARINGHOUSE ACCESSION NUMBER: EA509042

PUBLICATION DATE: OCT 77

TITLE: SOLAR DESIGN HIGHLIGHTS COLLECTORS

DESCRIPTOR: *SOLAR RADIATION; *ARTS CENTERS; *ART EDUCATION; *BUILDING SYSTEMS; PREFABRICATION; HIGHER EDUCATION; ARCHITECTURAL ELEMENTS; BUILDING DESIGN; CONSTRUCTION COSTS; *HAMPSHIRE COLLEGE

ISSUE: CIJE1978

ABSTRACT: SOLAR ENERGY COLLECTOR PANELS ARE USED AS A FREESTANDING CANOPY OVER WALKS THAT WILL CONNECT AN ARTS COMPLEX EVENTUALLY CONSISTING OF FIVE BUILDINGS. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 50; 2; 34-37

ACCESSION NUMBER: EJ167865

CLEARINGHOUSE ACCESSION NUMBER: EA509106

PUBLICATION DATE: NOV 77

TITLE: CAMPUS LIGHTING: A BETTER WAY

DESCRIPTOR: *ENERGY CONSERVATION; *FLEXIBLE LIGHTING DESIGN; *OUTDOOR LIGHTING; *LIGHTING; *ILLUMINATION LEVELS; JUNIOR COLLEGES; CONTROL SYSTEMS

ISSUE: CIJE1978

ABSTRACT: THE LIGHTING DESIGN AT THE NORTHWEST CAMPUS OF TARRANT COUNTY JUNIOR COLLEGE IN TEXAS HELPED PUT THE CAMPUS AT THE TOP OF THE STATE'S LIST OF ENERGY-EFFICIENT BUILDINGS. ONE FACTOR IS TIGHT TIME CONTROL OF LIGHTS. (AUTHOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY: 50; 3; 14-15

ACCESSION NUMBER: EJ167868

CLEARINGHOUSE ACCESSION NUMBER: EA509113

PUBLICATION DATE: NOV 77

TITLE: QUICK FIX: GOVERNMENT PROGRAM FOR ENERGY CONSERVATION

DESCRIPTOR: *ENERGY CONSERVATION; *UTILITIES; *HEATING; *AIR CONDITIONING EQUIPMENT; *VENTILATION; ELEMENTARY SECONDARY EDUCATION; HIGHER EDUCATION; FACILITY GUIDELINES

ISSUE: CIJE1978

ABSTRACT: ENERGY REDUCTION MEASURES THAT ACHIEVE SIGNIFICANT ENERGY SAVINGS AT LITTLE COST AND NEGLIGIBLE DISRUPTION OF THE ACADEMIC ENVIRONMENT CONCENTRATE ON UTILITIES AND HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: MODERN SCHOOLS: 7

ACCESSION NUMBER: EJ167870

CLEARINGHOUSE ACCESSION NUMBER: EA509115

PUBLICATION DATE: NOV 77

TITLE: ELECTRIC HIGH SCHOOL BEATS RECORD-SETTING WINTER

DESCRIPTOR: *HEATING; *ELECTRICAL SYSTEMS; *HEAT RECOVERY; *ENERGY CONSERVATION; SECONDARY EDUCATION; FLEXIBLE FACILITIES

ISSUE: CIJE1978

ABSTRACT: EVEN THOUGH THE KENTON RIDGE HIGH SCHOOL OPENED DURING OHIO'S COLDEST WINTER OF THE CENTURY, THIS TOTALLY ELECTRIC SCHOOL COST LESS TO OPERATE THAN SIMILAR SCHOOLS IN THE AREA. (AUTHOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: MODERN SCHOOLS: 10-11

ACCESSION NUMBER: EJ167871

CLEARINGHOUSE ACCESSION NUMBER: EA509116

PUBLICATION DATE: NOV 77

TITLE: HPS LIGHTS SAVE MONEY, POWER AT CITRUS COLLEGE

DESCRIPTOR: *LIGHTING DESIGN; *ILLUMINATION LEVELS; *ENERGY CONSERVATION; *EFFICIENCY; GYMNASIUMS; JUNIOR COLLEGES; *HIGH INTENSITY DISCHARGE LIGHTING

ISSUE: CIJE1978

ABSTRACT: A NEW LIGHTING SYSTEM SAVES ELECTRICITY AND THE LIGHTING LEVEL IS FIVE TIMES BETTER THAN PREVIOUSLY, AT CITRUS COLLEGE IN LOS ANGELES COUNTY, CALIFORNIA. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: MODERN SCHOOLS: 12

ACCESSION NUMBER: EJ168424

CLEARINGHOUSE ACCESSION NUMBER: SE519933

PUBLICATION DATE: SEP 77

TITLE: PROMPTING ELECTRICAL ENERGY CONSERVATION IN COMMERCIAL USERS

PERSONAL AUTHOR: DELPRATO, DENNIS J.

DESCRIPTOR: *BEHAVIOR CHANGE; *COLLEGE STUDENTS; *CONSERVATION EDUCATION; ENERGY; *INSTRUCTION; BEHAVIORAL SCIENCE RESEARCH; ENVIRONMENT; LIGHTING

ISSUE: CIJE1978

ABSTRACT: SELF PROMPTING TECHNIQUES WERE USED TO INFLUENCE PEOPLE TO TURN OFF LIGHTS IN BATHROOMS. AFTER CONSUMERS WERE GIVEN A METHOD FOR SELF MONITORING THEIR BEHAVIOR THERE WAS A SIGNIFICANT DROP IN THE NUMBER OF TIMES LIGHTS WERE LEFT ON IN UNOCCUPIED BATHROOMS. (AJ)

JOURNAL CITATION: ENVIRONMENT AND BEHAVIOR: 9; 3; 433-440

ACCESSION NUMBER: EJ168438

CLEARINGHOUSE ACCESSION NUMBER: SE519988

PUBLICATION DATE: OCT 77

TITLE: PROSPECTS FOR SOLAR ELECTRICITY

PERSONAL AUTHOR: POLLARD, WILLIAM G.

DESCRIPTOR: *ENERGY; *FUTURES (OF SOCIETY); *PHYSICAL SCIENCES; *SCIENTIFIC ENTERPRISE; *TECHNOLOGY; ENERGY CONSERVATION; PHYSICS; RESEARCH; SCIENTIFIC RESEARCH; *SOLAR ENERGY

ISSUE: CIJE1978

ABSTRACT: DISCUSSES THE PRACTICALITY OF THE LARGE SCALE PRODUCTION OF ELECTRICITY FROM SOLAR SOURCES UTILIZING CURRENT TECHNOLOGY. THE PROSPECTS ARE DETERMINED TO ECONOMICALLY UNFEASIBLE. (SL)

JOURNAL CITATION: PHYSICS TEACHER: 15; 7; 391-395

ACCESSION NUMBER: EJ168491

CLEARINGHOUSE ACCESSION NUMBER: SE520086

PUBLICATION DATE: OCT 77

TITLE: TOYING AROUND IN ELEMENTARY SCHOOL SCIENCE

PERSONAL AUTHOR: MAY, DAVID H.

DESCRIPTOR: *CLASS ACTIVITIES; *ELEMENTARY SCHOOL SCIENCE; *ENERGY; *SCIENCE ACTIVITIES; *TOYS; ELEMENTARY EDUCATION; GAMES; SCIENCE EDUCATION; YO-YO

ISSUE: CIJE1978

ABSTRACT: DESCRIBES ENERGY RELATED INVESTIGATIONS WHICH CAN BE PERFORMED IN THE ELEMENTARY CLASSROOM UTILIZING THE YO-YO. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE AND CHILDREN: 15; 2; 18-19

ACCESSION NUMBER: EJ168499
 CLEARINGHOUSE ACCESSION NUMBER: SE920094
 PUBLICATION DATE: OCT 77
 TITLE: CURRICULUM REVIEWS
 DESCRIPTOR: *CURRICULUM; *ELEMENTARY SCHOOL SCIENCE;
 *ENERGY; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS;
 *ELEMENTARY EDUCATION; *PLAY; *SCIENCE EDUCATION
 ISSUE: CIJE1978
 ABSTRACT: REVIEWS TWO NEW CURRICULUM MATERIALS KITS,
 INCLUDING THE WIDE WORLD OF ENERGY AND THE PLAYMOBIL SYSTEM.
 (SL)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: SCIENCE AND CHILDREN; 15; 2: 44-45

ACCESSION NUMBER: EJ168506
 CLEARINGHOUSE ACCESSION NUMBER: SE920117
 PUBLICATION DATE: NOV-DEC 77
 TITLE: AN ENERGY CONSERVATION CHECKUP
 PERSONAL AUTHOR: KING, THOMAS W.
 DESCRIPTOR: *CONSERVATION EDUCATION; *CONSERVATION
 (ENVIRONMENT); *ENERGY; *ENERGY CONSERVATION; *ENVIRONMENTAL
 EDUCATION; *FUEL CONSUMPTION; *HEAT; *SCIENCE ACTIVITIES
 ISSUE: CIJE1978
 ABSTRACT: REVIEWS TECHNIQUES FOR ENERGY CONSERVATION IN THE
 HOME. (SL)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: CONSERVATIONIST; 32; 3: EQM II-EQM IV

ACCESSION NUMBER: EJ169102
 CLEARINGHOUSE ACCESSION NUMBER: AA927075
 PUBLICATION DATE: SEP 77
 TITLE: YOU ARE YOUR SCHOOLS TOP PR AGENT
 PERSONAL AUTHOR: WHERRY, JOHN W.
 DESCRIPTOR: *ELEMENTARY EDUCATION; *TEACHER ROLE; *PARENT
 TEACHER COOPERATION; *GUIDELINES; *PARENT SCHOOL
 RELATIONSHIP; *DISCIPLINE POLICY; *PUBLIC RELATIONS
 ISSUE: CIJE1978
 ABSTRACT: THE KEY TO BUILDING GOOD SCHOOL PUBLIC RELATIONS
 IS GOOD COMMUNICATION, I.E., THE QUALITY OF THE PERSONAL
 CONTACTS BETWEEN TEACHERS WHO ARE EMPLOYEES, AND THE
 PARENTS OF STUDENTS WHO ARE EMPLOYERS. HERE ARE SUGGESTIONS
 FOR HELPING TEACHERS GET THEIR MESSAGE ACROSS TO PARENTS AND
 FOR EVALUATING THEIR PROGRESS OR PR RATING. (AUTHOR/RK)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: INSTRUCTOR; 87; 2: 148-58

ACCESSION NUMBER: EJ169103
 CLEARINGHOUSE ACCESSION NUMBER: AA927076
 PUBLICATION DATE: SEP 77
 TITLE: HOW ONE SCHOOL DISTRICT MEETS THE ENERGY CRISIS
 PERSONAL AUTHOR: WELLS, MAUREEN
 DESCRIPTOR: *ELEMENTARY EDUCATION; *ENERGY CONSERVATION;
 *TEACHER RESPONSIBILITY; *PROGRAM DESCRIPTIONS; *SCHOOL
 RESPONSIBILITY; *STUDENT PARTICIPATION; *ILLUSTRATIONS;
 *MINNESOTA (MINNEAPOLIS)
 ISSUE: CIJE1978
 ABSTRACT: DESCRIBES HOW MINNEAPOLIS SCHOOLS DEAL WITH THE
 ENERGY CRISIS. PROVIDES SUGGESTIONS FOR EDUCATING CHILDREN
 ABOUT HOW TO COMBAT THE PROBLEM. (AUTHOR/RK)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: INSTRUCTOR; 87; 2: 182-88

ACCESSION NUMBER: EJ169166
 CLEARINGHOUSE ACCESSION NUMBER: CE506873
 PUBLICATION DATE: F 77
 TITLE: IF FOSSIL AND FISSILE FUELS FALTER, WE'VE GOT. . .
 PERSONAL AUTHOR: KLAUS, ROBERT L.
 DESCRIPTOR: *TECHNOLOGICAL ADVANCEMENT; *NATURAL RESOURCES;
 *EARTH SCIENCE; *SYSTEMS CONCEPTS; *ELECTRICITY; *ELECTRONICS;
 *CHEMISTRY; *WASTES; *THERMODYNAMICS; *THERMIONICS; *GEOTHERMAL;
 *ENERGY SOURCES; *ENERGY TECHNOLOGY
 ISSUE: CIJE1978
 ABSTRACT: ALTERNATIVE ENERGY SOURCES AND THE NEW SYSTEMS
 AND TECHNIQUES REQUIRED FOR THEIR DEVELOPMENT ARE DESCRIBED:
 FUEL CELLS, MAGNETOHYDRODYNAMICS, THERMIONICS, GEOTHERMAL,
 WIND, TIDES, WASTE CONSERVATION, BIOMASS, AND OCEAN THERMAL
 ENERGY CONVERSION. (INF)

JOURNAL CITATION: JOURNAL OF EPSILON PI TAU; 3; 2: 25-30

ACCESSION NUMBER: EJ169751
 CLEARINGHOUSE ACCESSION NUMBER: EA509150
 PUBLICATION DATE: NOV 77
 TITLE: SCHOOL IN THE HILL
 DESCRIPTOR: *ENERGY CONSERVATION; *SCHOOL DESIGN; *SOLAR
 RADIATION; *HEAT RECOVERY; *BUILDING INNOVATION; *CLIMATE
 CONTROL; *ELEMENTARY EDUCATION; *UNDERGROUND BUILDINGS
 ISSUE: CIJE1978
 ABSTRACT: THE TERRASET ELEMENTARY SCHOOL IN RESTON,
 VIRGINIA, COMBINES UNDERGROUND CONSTRUCTION WITH A
 SOPHISTICATED HEAT RECLAMATION MECHANICAL SYSTEM AND SOLAR
 COLLECTORS. (AUTHOR/MLF)
 JOURNAL CITATION: BUILDING DESIGN AND CONSTRUCTION; 18; 11:
 50-3

ACCESSION NUMBER: EJ169753
 CLEARINGHOUSE ACCESSION NUMBER: EA509152
 PUBLICATION DATE: SEP-OCT 77
 TITLE: ENERGY DESIGN FOR NEW BUILDINGS
 PERSONAL AUTHOR: CROSS, JIM
 DESCRIPTOR: *ENERGY CONSERVATION; *SCHOOL DESIGN;
 *EFFICIENCY; *SOLAR RADIATION; *SITE SELECTION; *MECHANICAL
 EQUIPMENT; *CLIMATE CONTROL; *HEAT RECOVERY; *ELEMENTARY
 SECONDARY EDUCATION; *HIGHER EDUCATION
 ISSUE: CIJE1978
 ABSTRACT: EXAMINES WAYS CONTEMPORARY DESIGN AND USE OF
 SCHOOLS CAN POSITIVELY AFFECT FUTURE ENERGY AVAILABILITY.
 (AUTHOR/MLF)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: CEFJ JOURNAL; 15; 5: 10-2

ACCESSION NUMBER: EJ169791
 CLEARINGHOUSE ACCESSION NUMBER: EA509190
 PUBLICATION DATE: DEC 77
 TITLE: ENERGY EDUCATION FOR COLORADO ADULTS
 PERSONAL AUTHOR: BOTTINELLI, CHARLES A.; CURTIS, ALAN
 DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *ENERGY; *PROGRAM
 DESCRIPTIONS; *ADULT EDUCATION; *ENERGY CONSERVATION;
 *COLORADO
 ISSUE: CIJE1978
 ABSTRACT: DESCRIBES THE GOALS, OBJECTIVES, EXPECTED
 BENEFITS, AND PHASES OF A PROGRAM TO DEVELOP A MODEL OF
 ENERGY/ENVIRONMENTAL EDUCATION FOR ADULTS. IT IS IMPERATIVE
 THAT ENERGY EDUCATION PROGRAMS BE EXTENDED TO INCLUDE ADULTS
 BECAUSE OF THE SERIOUS DECISIONS THAT MUST BE MADE IN THE
 NEXT FIVE YEARS. (AUTHOR/IRI)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: PHI DELTA KAPPAN; 59; 4: 268-9

ACCESSION NUMBER: EJ169814
 CLEARINGHOUSE ACCESSION NUMBER: EA509213
 PUBLICATION DATE: DEC 77
 TITLE: ENERGY: LET'S WATCH OUR LANGUAGE
 PERSONAL AUTHOR: STEPHAN, ED
 DESCRIPTOR: *ENERGY CONSERVATION; *BUILDING OPERATION;
 *OPERATING EXPENSES; *VOCABULARY; *COST EFFECTIVENESS;
 *ELEMENTARY SECONDARY EDUCATION; *SCHOOL MAINTENANCE
 ISSUE: CIJE1978
 ABSTRACT: IT IS IMPORTANT FOR SCHOOL ADMINISTRATORS TO
 IMPRESS ON THEIR TAX-PAYING PUBLICS THE DIFFERENCES BETWEEN
 "SAVINGS," WHICH IMPLIES BUDGET REDUCTIONS, AND "COST
 AVOIDANCE," WHICH IMPLIES WHAT THEY MIGHT BE PAYING IF
 ENERGY REDUCTION MEASURES HAD NOT BEEN TAKEN. (AUTHOR)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 50; 4:
 32-33

ACCESSION NUMBER: EJ169858
 CLEARINGHOUSE ACCESSION NUMBER: EA509257
 PUBLICATION DATE: DEC 77
 TITLE: ROOM AT THE BOTTOM
 DESCRIPTOR: *BUILDING INNOVATION; *ENERGY CONSERVATION;
 *SOLAR RADIATION; *HIGHER EDUCATION; *CLIMATE CONTROL;
 *UNIVERSITY OF MINNESOTA; *UNDERGROUND BUILDINGS
 ISSUE: CIJE1978
 ABSTRACT: A RETAIL BOOKSTORE AND OFFICES FOR THE UNIVERSITY

OF MINNESOTA'S ADMISSIONS AND RECORDS DEPARTMENT ARE HOUSED IN WILLIAMSON HALL. SOME 95 PERCENT OF THE FLOOR AREA LIES BELOW GRADE. HOWEVER, WINDOW ARRANGEMENT PERMITS A VIEW OF THE OUTDOORS OR SUNLIGHT FROM ALMOST EVERY PART OF THE BUILDING. (AUTHOR/MLF)

JOURNAL CITATION: BUILDING DESIGN AND CONSTRUCTION; 18; 12; 52-7

ACCESSION NUMBER: EJ170142

CLEARINGHOUSE ACCESSION NUMBER: HE509396

PUBLICATION DATE: OCT/NOV 77

TITLE: UNIVERSITY OF MINNESOTA

PERSONAL AUTHOR: HANSON, JEANNIE; AND OTHERS

DESCRIPTOR: *PHYSICAL DESIGN NEEDS; *COLLEGE STORES; *INTERIOR DESIGN; *SOLAR RADIATION; *ENERGY CONSERVATION; *BUILDING DESIGN; *HIGHER EDUCATION; *STATE UNIVERSITIES; *CONSTRUCTION (PROCESS); *UNIVERSITY OF MINNESOTA

ISSUE: CIJE1978

ABSTRACT: MINNESOTA'S BOOKSTORE IS HOUSED IN AN AWARD-WINNING UNDERGROUND BUILDING DESIGNED TO SAVE ENERGY AND SPACE WHILE PROVIDING SCENERY. IT INCLUDES VAULTED CEILINGS, SLANTED WINDOWS, A RECESSED COURTYARD, PLATFORMS, MEZZANINES, AND PLANTS GROWING IN BOOKCASES. A SOLAR ENERGY UNIT SUPPORTED BY A FEDERAL GRANT IS INCORPORATED IN THE DESIGN. (LBH)

JOURNAL CITATION: COLLEGE STORE JOURNAL; 44; 6; 84-6

ACCESSION NUMBER: EJ170433

CLEARINGHOUSE ACCESSION NUMBER: SE520110

PUBLICATION DATE: OCT 77

TITLE: SOLAR ENERGY--ITS MEASUREMENT

PERSONAL AUTHOR: WIEDER, SOL; JAOUJI, EDMOND

DESCRIPTOR: *COLLEGE SCIENCE; *ENERGY; *INSTRUMENTATION; *MEASUREMENT INSTRUMENTS; *PHYSICS; *SCIENCE EQUIPMENT; *HIGHER EDUCATION; *PHYSICAL SCIENCES; *SCIENCE EDUCATION; *SOLAR ENERGY

ISSUE: CIJE1978

ABSTRACT: DISCUSSES THE CALIBRATION OF BOLOMETRIC AND PHOTOELECTRIC DEVICES UTILIZED FOR THE MEASUREMENT OF SOLAR ENERGY. (SL)

JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS; 45; 10; 981-4

ACCESSION NUMBER: EJ170625

CLEARINGHOUSE ACCESSION NUMBER: J505938

PUBLICATION DATE: NOV 77

TITLE: DECISION MAKING AND ENVIRONMENTAL PROBLEMS

PERSONAL AUTHOR: THOMPSON, BERTHA BOYA

DESCRIPTOR: *GEOGRAPHY INSTRUCTION; *MODELS; *DECISION MAKING SKILLS; *PROBLEM SOLVING; *ENVIRONMENT; *TEACHING METHODS; *ENERGY CONSERVATION; *NATURAL RESOURCES; *SECONDARY EDUCATION

ISSUE: CIJE1978

ABSTRACT: SUGGESTS A DECISION-MAKING MODEL THAT CAN BE APPLIED BY HIGH SCHOOL STUDENTS TO A VARIETY OF ENVIRONMENTAL PROBLEMS, AND ILLUSTRATES HOW THE MODEL CAN BE USED TO MAKE DECISIONS CONCERNING FUTURE ENERGY SHORTAGES. PROVIDES CRITERIA FOR JUDGING ALLOCATION PRIORITIES OF LIMITED RESOURCES AND STIMULATES AWARENESS OF ALTERNATIVE SOLUTIONS TO ENERGY PROBLEMS. (AUTHOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: JOURNAL OF GEOGRAPHY; 76; 6; 224-33

ACCESSION NUMBER: EJ170763

CLEARINGHOUSE ACCESSION NUMBER: SP506418

PUBLICATION DATE: SEP-OCT 77

TITLE: ENERGY

PERSONAL AUTHOR: BOYER, ERNEST L.

DESCRIPTOR: *NATURAL RESOURCES; *CONSERVATION EDUCATION; *ENERGY; *PHYSICAL ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *SOCIAL PROBLEMS; *POLLUTION; *HUMAN LIVING; *FUTURES (OF SOCIETY); *CURRICULUM DEVELOPMENT

ISSUE: CIJE1978

ABSTRACT: SCHOOLS MUST TEACH PUPILS ABOUT THE WIDE NATURE OF OUR ENERGY DILEMMA AND PREPARE THEM FOR A FUTURE IN WHICH NOT ONLY WILL CONSERVATION OF ENERGY BE ESSENTIAL, BUT ALSO THE CONSERVATION AND PRESERVATION OF OUR TOTAL NATURAL RESOURCES. (JD)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: TODAY'S EDUCATION; 66; 3; 55-8

ACCESSION NUMBER: EJ170764

CLEARINGHOUSE ACCESSION NUMBER: SP506419

PUBLICATION DATE: SEP-OCT 77

TITLE: SOME GUIDELINES FOR ENERGY PROGRAMS

PERSONAL AUTHOR: KRYGER, KING C.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *CONSERVATION EDUCATION; *CURRICULUM DEVELOPMENT; *GUIDELINES; *PROGRAM DESIGN; *PHYSICAL ENVIRONMENT

ISSUE: CIJE1978

ABSTRACT: THIS ARTICLE OFFERS GUIDELINES FOR EDUCATIONAL PROGRAMS DEVELOPED FOR THE PURPOSE OF EDUCATING STUDENTS AND ADULTS ON THE SERIOUSNESS OF THE ENERGY CRISES AND THE STEPS THAT MUST BE TAKEN TO COPE WITH IT. (JD)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: TODAY'S EDUCATION; 66; 3; 60-2

ACCESSION NUMBER: EJ170765

CLEARINGHOUSE ACCESSION NUMBER: SP506420

PUBLICATION DATE: SEP-OCT 77

TITLE: OUR SCHOOL-MADE SOLAR PROJECT

PERSONAL AUTHOR: SILVER, JERRY; JOHNSON, KURT

DESCRIPTOR: *SOLAR RADIATION; *CLIMATE CONTROL; *SCIENCE PROJECTS; *SCHOOL BUILDINGS; *SECONDARY EDUCATION; *STUDENT PROJECTS; *THERMAL ENVIRONMENT; *EDUCATIONAL INNOVATION; *SCIENCE EXPERIMENTS

ISSUE: CIJE1978

ABSTRACT: A HIGH SCHOOL CLASS, HOUSED IN A TEMPORARY PREFABRICATED STRUCTURE, DESIGNED AND BUILT A SOLAR ENERGY ELEMENT TO HEAT THE BUILDING. (JD)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: TODAY'S EDUCATION; 66; 3; 62-4

ACCESSION NUMBER: EJ170772

CLEARINGHOUSE ACCESSION NUMBER: SP506427

PUBLICATION DATE: SEP 77

TITLE: RECREATION PLANNING FOR ENERGY CONSERVATION

PERSONAL AUTHOR: GOLD, SEYMOUR M.

DESCRIPTOR: *ENERGY CONSERVATION; *RECREATIONAL FACILITIES; *PARKS; *COMMUNITY PLANNING; *SITE DEVELOPMENT; *AIR POLLUTION CONTROL; *SITE SELECTION; *LAND USE; *COMMUNITY RESOURCES; *LEISURE TIME

ISSUE: CIJE1978

ABSTRACT: TO CONSERVE ENERGY CONSUMED BY CARS AND TO IMPROVE THE ENVIRONMENT BY REDUCING AIR POLLUTION CAUSED BY THEM, COMMUNITIES SHOULD DEVELOP AND EXPAND ALREADY EXISTING URBAN PARKS SO THEY WILL BE ATTRACTIVE TO POTENTIAL USERS WHO CAN REACH THEM BY WALKING OR BICYCLING. (JD)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: PARKS AND RECREATION; 12; 9; 61-3,83-9

ACCESSION NUMBER: EJ171062

CLEARINGHOUSE ACCESSION NUMBER: CE506942

PUBLICATION DATE: NOV 77

TITLE: ENERGY ALTERNATIVES AND THE ROLE OF INDUSTRIAL ARTS

PERSONAL AUTHOR: OWENS, FRANK C.; PINELLI, THOMAS E.

DESCRIPTOR: *ENERGY; *CONSERVATION EDUCATION; *ENERGY CONSERVATION; *INDUSTRIAL ARTS; *INTEGRATED ACTIVITIES; *SECONDARY EDUCATION; *CURRICULUM DEVELOPMENT; *INTEGRATED CURRICULUM

ISSUE: CIJE1978

ABSTRACT: REVIEWS THE ENERGY CRISIS, DISCUSSES ENERGY CONSERVATION, AND SUGGESTS METHODS FOR INTEGRATING COMPONENTS OF ENERGY EDUCATION INTO INDUSTRIAL ARTS CURRICULUM. CONSUMER AND OCCUPATIONAL ASPECTS OF ENERGY ARE DISCUSSED BRIEFLY. (TA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: NAM/SOCIETY/TECHNOLOGY; 37; 2; 22-6

ACCESSION NUMBER: EJ171539

CLEARINGHOUSE ACCESSION NUMBER: EA509322

PUBLICATION DATE: DEC 77

TITLE: COMPUTER SAVES ENERGY FOR KENT STATE

DESCRIPTOR: *COMPUTER SCIENCE; *ELECTRICITY; *CLIMATE CONTROL; *COST EFFECTIVENESS; *ENERGY CONSERVATION; *COMPUTER PROGRAMS; *HIGHER EDUCATION; *KENT STATE UNIVERSITY

ISSUE: CIJE1978

ABSTRACT: A COMPUTER SYSTEM AT KENT STATE UNIVERSITY THAT CONTROLS THE TEMPERATURE IN NINE CAMPUS BUILDINGS SAVES THE

UNIVERSITY THOUSANDS OF DOLLARS. (AUTHOR/MLF)
AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: MODERN SCHOOLS: 7

ACCESSION NUMBER: EJ172299

CLEARINGHOUSE ACCESSION NUMBER: JC501517

PUBLICATION DATE: NOV 77

TITLE: A PROMISING MARRIAGE

PERSONAL AUTHOR: CARSEY, J. M.

DESCRIPTOR: *JUNIOR COLLEGES; *CURRICULUM DEVELOPMENT;
*ENERGY; *ENVIRONMENTAL TECHNICIANS; *COMMUNITY SERVICE
PROGRAMS; *COMMUNITY COLLEGES; *TECHNICAL EDUCATION; *ENERGY
CONSERVATION; *ENERGY RESEARCH AND DEVELOPMENT
ADMINISTRATION; *ENERGY CONSERVATION TECHNOLOGY

ISSUE: CIJE1978

ABSTRACT: REVIEWS RECENT DEVELOPMENTS AND SUGGESTS METHODS
BY WHICH COMMUNITY COLLEGES CAN MEET THE NEEDS OF THE ENERGY
RESEARCH AND DEVELOPMENT ADMINISTRATION BY DEVELOPING
TRAINING PROGRAMS FOR ENVIRONMENTAL TECHNICIANS AND PROGRAMS
DESIGNED TO FOSTER CITIZEN AWARENESS. (DC)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: COMMUNITY AND JUNIOR COLLEGE JOURNAL: 48:
3: 10-4

ACCESSION NUMBER: EJ172300

CLEARINGHOUSE ACCESSION NUMBER: JC501518

PUBLICATION DATE: NOV 77

TITLE: ENERGY CONSERVATION EDUCATION AND THE COMMUNITY
COLLEGE

PERSONAL AUTHOR: MYRAN, GUNDEL A.

DESCRIPTOR: *JUNIOR COLLEGES; *ENERGY CONSERVATION;
*COMMUNITY SERVICE PROGRAMS; *COMMUNITY PROBLEMS; *COMMUNITY
COLLEGES; *CONSORTIA; *ENERGY CONSERVATION (ENVIRONMENT);
*ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION

ISSUE: CIJE1978

ABSTRACT: DISCUSS A REGIONAL PROGRAM FOR EDUCATING THE
PUBLIC ABOUT ENERGY CONSERVATION AND SOLVING COMMUNITY
ENERGY PROBLEMS. (DC)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: COMMUNITY AND JUNIOR COLLEGE JOURNAL: 48:
3: 16-9

ACCESSION NUMBER: EJ172301

CLEARINGHOUSE ACCESSION NUMBER: JC501519

PUBLICATION DATE: NOV 77

TITLE: ENERGY MANAGEMENT AT LANE COMMUNITY COLLEGE

PERSONAL AUTHOR: SCHAFER, ELTON G.; BIRCH, ANTHONY D.

DESCRIPTOR: *JUNIOR COLLEGES; *ENERGY CONSERVATION; *FUEL
CONSUMPTION; *FACILITY IMPROVEMENT; *CONSERVATION
(ENVIRONMENT); *COMMUNITY COLLEGES; *FACILITY PLANNING; *HEAT;
*ENERGY

ISSUE: CIJE1978

ABSTRACT: A DETAILED DESCRIPTION OF A COMMUNITY COLLEGE'S
SUCCESSFUL EFFORTS TO REDUCE ITS ENERGY CONSUMPTION BY
MODIFYING ITS CENTRAL HEATING AND COOLING PLANT. (DC)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: COMMUNITY AND JUNIOR COLLEGE JOURNAL: 48:
3: 22-3

ACCESSION NUMBER: EJ172303

CLEARINGHOUSE ACCESSION NUMBER: JC501521

PUBLICATION DATE: NOV 77

TITLE: FOUR-DAY WORK WEEK SAVES ENERGY

PERSONAL AUTHOR: JOHNSON, DAVID P.

DESCRIPTOR: *JUNIOR COLLEGES; *SCHOOL SCHEDULES; *ENERGY
CONSERVATION; *COMMUNITY COLLEGES; *FACILITY UTILIZATION
RESEARCH; *ENERGY ENROLLMENT INFLUENCES; *STAFF UTILIZATION;
*FOUR DAY WEEK

ISSUE: CIJE1978

ABSTRACT: A FOUR-DAY ACADEMIC WEEK SERVES THE NEEDS OF MORE
STUDENTS, CONSERVES ENERGY, AND CUTS COSTS BY MAKING MORE
EFFICIENT USE OF FACULTY, STAFF, AND CAMPUS FACILITIES. (DC)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: COMMUNITY AND JUNIOR COLLEGE JOURNAL: 48:
3: 31-3

ACCESSION NUMBER: EJ172305

CLEARINGHOUSE ACCESSION NUMBER: JC501523

PUBLICATION DATE: NOV 77

TITLE: SOLAR ENERGY EDUCATION BY EXAMPLE

PERSONAL AUTHOR: LUCHSINGER, LELAND B.; ANDERSON, JOHN D.

DESCRIPTOR: *JUNIOR COLLEGES; *ENERGY CONSERVATION; *COSTS;
*SOLAR RADIATION; *COMMUNITY COLLEGES; *EDUCATIONAL
FACILITIES; *ENERGY; *HEAT; *CAMPUS PLANNING

ISSUE: CIJE1978

ABSTRACT: THE NEW NORTH CAMPUS OF THE COMMUNITY COLLEGE OF
DENVER IS HEATED BY SOLAR ENERGY. THIS ARTICLE DESCRIBES THE
SYSTEM AND ITS COSTS. (DC)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: COMMUNITY AND JUNIOR COLLEGE JOURNAL: 48:
3: 38-41

ACCESSION NUMBER: EJ172309

CLEARINGHOUSE ACCESSION NUMBER: JC501527

PUBLICATION DATE: DEC/JAN 77-78

TITLE: TRANSFERRING ENERGY CONSERVATION POLICY INTO ACTION

PERSONAL AUTHOR: TULER, THOMAS M.

DESCRIPTOR: *JUNIOR COLLEGES; *COSTS; *ENERGY CONSERVATION;
*FUEL CONSUMPTION; *COMMUNITY COLLEGES; *EDUCATIONAL
FACILITIES; *ENERGY CONSERVATION (ENVIRONMENT); *HEAT

ISSUE: CIJE1978

ABSTRACT: A CASE STUDY OF HOW A SMALL COMMUNITY COLLEGE HAS
SAVED ENERGY AND ENERGY COSTS. (DC)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: COMMUNITY AND JUNIOR COLLEGE JOURNAL: 48:
4: 26-7

ACCESSION NUMBER: EJ172447

CLEARINGHOUSE ACCESSION NUMBER: SE520360

PUBLICATION DATE: SEP 77

TITLE: THE ENERGY GAME

PERSONAL AUTHOR: CAMPBELL, JAMES M.; DRUMMOND, ALASDAIR

DESCRIPTOR: *EDUCATIONAL GAMES; *ENERGY; *JUNIOR HIGH
SCHOOL STUDENTS; *SCIENCE ACTIVITIES; *ELEMENTARY SECONDARY
EDUCATION; *ENVIRONMENTAL EDUCATION; *SCIENCE EDUCATION;
*SECONDARY SCHOOL SCIENCE; *SIMULATION

ISSUE: CIJE1978

ABSTRACT: DESCRIBES THE OBJECTIVES AND OPERATION OF AN
EDUCATIONAL GAME WELL-SUITED FOR JUNIOR HIGH AGE STUDENTS.
STUDENTS COMPETE IN GROUPS, MAKING THE GAME APPROPRIATE FOR
USE WITH AN ENTIRE CLASS. (CP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI (CP)

JOURNAL CITATION: SCHOOL SCIENCE REVIEW: 59: 206: 13-23

ACCESSION NUMBER: EJ172515

CLEARINGHOUSE ACCESSION NUMBER: SE520483

PUBLICATION DATE: DEC 77

TITLE: ENERGY BEHAVIOR

PERSONAL AUTHOR: STERN, PAUL C.; KIRKPATRICK, EILEEN M.

DESCRIPTOR: *ATTITUDES; *BEHAVIOR; *DEPLETED RESOURCES;
*ENERGY; *ENERGY CONSERVATION; *NATURAL RESOURCES;
*CONSERVATION (ENVIRONMENT); *CONSERVATION EDUCATION; *FUEL
CONSUMPTION; *VALUES

ISSUE: CIJE1978

ABSTRACT: THIS ARTICLE DISCUSSES THE CURRENT TWO MAJOR
SCHOOLS OF THOUGHT ABOUT ENERGY CONSERVATION. ONE IS BASED
ON A SYSTEM OF INCENTIVES OR PENALTIES TO CHANGE BEHAVIOR
AND THE OTHER ON ATTITUDE CHANGE. PROBLEMS ASSOCIATED WITH
BOTH SCHOOLS ARE IDENTIFIED AND EXAMPLES OF THE TWO METHODS
ARE GIVEN. (MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: ENVIRONMENT: 19: 9: 10-15

ACCESSION NUMBER: EJ172609

CLEARINGHOUSE ACCESSION NUMBER: SD506011

PUBLICATION DATE: NOV/DEC 77

TITLE: WHEN YOU TURN ON THAT SWITCH: CONSERVATION IN THE
CLASSROOM

PERSONAL AUTHOR: MCCOLLUM, DANNELL

DESCRIPTOR: *ENERGY CONSERVATION; *TEACHING METHODS;
*STUDENT PARTICIPATION; *FUEL CONSUMPTION; *LEARNING
ACTIVITIES; *ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES;
*ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1978

ABSTRACT: DESCRIBES A TECHNIQUE FOR INVOLVING STUDENTS IN ENERGY AWARENESS AND CONSERVATION. STUDENTS ARE ASKED TO COMPARE THEIR FAMILIES' ELECTRIC BILLS TO CALCULATE AMOUNTS OF STRIP-MINED LAND NEEDED TO FILL FAMILIES' ANNUAL POWER NEEDS, AND TO ESTIMATE ANNUAL ENERGY CONSUMPTION BASED ON ELECTRICAL GADGETS IN THEIR HOMES. (AUTHOR/AV)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SOCIAL STUDIES; 68: 6: 267-8

ACCESSION NUMBER: EJ172970

CLEARINGHOUSE ACCESSION NUMBER: CE507066

PUBLICATION DATE: JAN-FEB 78

TITLE: TEACHING RESOURCE CONSERVATION IN HOME ECONOMICS

PERSONAL AUTHOR: SPITZE, HAZEL TAYLOR

DESCRIPTOR: *HOME ECONOMICS EDUCATION; *CONSUMER EDUCATION; *ENERGY CONSERVATION; *CONSERVATION EDUCATION; *FUEL CONSUMPTION; *DEPLETED RESOURCES; HOME ECONOMICS; CONSUMER ECONOMICS; ENERGY; TEACHING TECHNIQUES

ISSUE: CIJE1978

ABSTRACT: PRESENTS RATIONALE FOR TEACHING RESOURCE CONSERVATION IN HOME ECONOMICS EDUCATION WITH EMPHASIS ON VOLUNTARY SIMPLICITY AS THE LIFE-STYLE OF THE FUTURE AND SUGGESTS FIFTEEN TEACHING TECHNIQUES TO INCREASE LEARNER AWARENESS OF SUCH PROBLEMS AS THE ENERGY SHORTAGE, RISING COST OF ENERGY AND THE MANNER IN WHICH ENERGY IS DISTRIBUTED AMONG INCOME GROUPS. (RM)

JOURNAL CITATION: ILLINOIS TEACHER OF HOME ECONOMICS; 21: 3: 106-12

ACCESSION NUMBER: EJ172971

CLEARINGHOUSE ACCESSION NUMBER: CE507067

PUBLICATION DATE: JAN-FEB 78

TITLE: THE HOME ECONOMICS LABORATORY AS AN ENVIRONMENTAL MODEL

PERSONAL AUTHOR: BOYD, JILLIAN

DESCRIPTOR: *HOME ECONOMICS EDUCATION; *ENERGY CONSERVATION; *CONSERVATION EDUCATION; *CONSUMER EDUCATION; *LABORATORY PROCEDURES; *LABORATORY EQUIPMENT; ENVIRONMENTAL EDUCATION; LIFE STYLE; FUEL CONSUMPTION; RECYCLING

ISSUE: CIJE1978

ABSTRACT: A HOME ECONOMICS CLASSROOM DESIGNED TO CONSERVE ENERGY AND ENCOURAGE STUDENTS TO PRACTICE A SIMPLER LIFE-STYLE IS DESCRIBED, AND A CHECK LIST OF FORTY-FIVE SUGGESTIONS FOR DEVELOPING THE HOME ECONOMICS LABORATORY AS AN ENVIRONMENTAL MODEL IS PRESENTED. (RM)

JOURNAL CITATION: ILLINOIS TEACHER OF HOME ECONOMICS; 21: 3: 113-9

ACCESSION NUMBER: EJ173090

CLEARINGHOUSE ACCESSION NUMBER: CE507186

PUBLICATION DATE: JAN-FEB 78

TITLE: THE ROLE OF SOLAR TECHNOLOGY PROGRAMS IN MEETING OUR ENERGY NEEDS

PERSONAL AUTHOR: VALENTINE, IAN E.; LARSON, MILTON E.

DESCRIPTOR: *SOLAR RADIATION; *ELECTROMECHANICAL TECHNOLOGY; *EDUCATIONAL NEEDS; ENERGY CONSERVATION; CLIMATE CONTROL; HEAT RECOVERY; TECHNICAL EDUCATION; POST SECONDARY EDUCATION; DEMAND OCCUPATIONS; TECHNICAL OCCUPATIONS; ENERGY TECHNOLOGY; ENERGY SOURCES

ISSUE: CIJE1978

ABSTRACT: ELEMENTS TO BE INCLUDED IN A SOLAR ENERGY TECHNOLOGY TRAINING PROGRAM OFFERED IN POSTSECONDARY INSTITUTIONS ARE LISTED. THE ARTICLE EXAMINES VARIOUS PRESENT AND FUTURE ENERGY SOURCES AND DESCRIBES THE SOLAR ENERGY SYSTEM, STRESSING THE IMMEDIATE NEED FOR TRAINING PROGRAMS FOR SOLAR ENERGY TECHNICIANS. (MF)

JOURNAL CITATION: TECHNICAL EDUCATION NEWS; 37: 2: 8-9,24

ACCESSION NUMBER: EJ173511

CLEARINGHOUSE ACCESSION NUMBER: EA509428

PUBLICATION DATE: FEB 78

TITLE: PLUGGING THE ENERGY DRAIN

PERSONAL AUTHOR: NANNI, ROBERT

DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION; *COMPUTER SCIENCE; *ELECTRICITY; *AIR FLOW; SECONDARY EDUCATION; SCHOOL MAINTENANCE; BUILDING OPERATION; SCHOOL DISTRICTS

ISSUE: CIJE1978

ABSTRACT: A COMPUTERIZED POWER MANAGEMENT PROJECT AT LEYDEN TOWNSHIP HIGH SCHOOL DISTRICT 212, ILLINOIS, MINIMIZES ELECTRICAL POWER USAGE AND GAS FUEL CONSUMPTION BY CONTROLLING THE ON/OFF AIR HANDLING CYCLE INTERVALS. (MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS; 44: 2: 33-4

ACCESSION NUMBER: EJ173512

CLEARINGHOUSE ACCESSION NUMBER: EA509429

PUBLICATION DATE: FEB 78

TITLE: COMPUTER PAYS FOR ITSELF

PERSONAL AUTHOR: COSGROVE, THOMAS

DESCRIPTOR: *ENERGY CONSERVATION; *COMPUTER SCIENCE; *COST EFFECTIVENESS; *AWARDS; SECONDARY EDUCATION; SCHOOL DISTRICTS

ISSUE: CIJE1978

ABSTRACT: SUMMARIZES THE ACCOMPLISHMENTS OF TOWNSHIP HIGH SCHOOL DISTRICT 212, ILLINOIS, IN AN EFFECTIVE ENERGY REDUCTION PROGRAM THAT USES A COMPUTER. (MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS; 44: 2: 36

ACCESSION NUMBER: EJ173990

CLEARINGHOUSE ACCESSION NUMBER: IR505145

PUBLICATION DATE: JAN 1 78

TITLE: AN ENERGY SOURCE DIRECTORY

DESCRIPTOR: *DIRECTORIES; *ENERGY; *INFORMATION SOURCES; *PUBLICATIONS; ENERGY CONSERVATION

ISSUE: CIJE1978

ABSTRACT: OVER 600 SOURCES OF PRINT AND NONPRINT INFORMATION ON ENERGY ARE LISTED. MATERIALS RANGE FROM ELEMENTARY TO PROFESSIONAL AND TECHNICAL LEVELS. EACH ENTRY PROVIDES A DESCRIPTION OF AN ORGANIZATION AND ITS PUBLICATION PROGRAM, WITH EXAMPLES OF MATERIALS AVAILABLE. (KP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: LIBRARY JOURNAL; 103: 1: 26-70

ACCESSION NUMBER: EJ173991

CLEARINGHOUSE ACCESSION NUMBER: IR505146

PUBLICATION DATE: JAN 1 78

TITLE: ENERGY MATERIALS: A CLASSIFIED LISTING

DESCRIPTOR: *BIBLIOGRAPHIES; *ENERGY; *PUBLICATIONS; ENERGY CONSERVATION; LIBRARY COLLECTIONS

ISSUE: CIJE1978

ABSTRACT: THIS BIBLIOGRAPHY INCLUDES 615 BOOKS AND AUDIOVISUAL PRODUCTS ON ENERGY AND RELATED TOPICS. BOOKS ARE LISTED IN THE FOLLOWING CATEGORIES: REFERENCE, GENERAL, ALTERNATIVE SOURCES, CITIZEN ACTION, COAL, CONSERVATION AND ECOLOGY, ECONOMICS AND POLITICS, ELECTRICITY, GAS, GEOTHERMAL, NUCLEAR POWER, OIL, SOLAR, WATER, WIND, AND JUVENILES. A/V MATERIALS ARE LISTED BY FORMAT: 16MM SOUND FILMS, FILMSTRIPS, AND MULTIMEDIA KITS. ENTRIES INDICATE PUBLISHERS, PRICE, AND GRADE LEVEL WHERE APPROPRIATE. (RP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: LIBRARY JOURNAL; 103: 1: 71-9

ACCESSION NUMBER: EJ174226

CLEARINGHOUSE ACCESSION NUMBER: SE520450

PUBLICATION DATE: 77

TITLE: TANKERS IN U.S. WATERS

PERSONAL AUTHOR: STEWART, ROBERT J.

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *PETROLEUM INDUSTRY; *TRANSPORTATION; *WATER POLLUTION CONTROL; FUELS; MARINE BIOLOGY; OCEANOLOGY; POLLUTION

ISSUE: CIJE1978

ABSTRACT: NUMBERS OF PORT CALLS AND OIL SPILLAGE DATA BY U.S. AND FOREIGN FLAG TANKERS FOR THE YEARS 1973-75 ARE PROVIDED. MAJOR TANKER-RELATED OIL SPILLS IN U.S. COASTAL WATERS ARE DISCUSSED. (CP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: OCEANUS; 20: 4: 74-85

ACCESSION NUMBER: EJ174274

CLEARINGHOUSE ACCESSION NUMBER: SE520593

PUBLICATION DATE: 77

TITLE: A REAL OPINION: CONSERVATION TO 1990 AND BEYOND

PERSONAL AUTHOR: BROOKS, DAVID B.

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ECONOMIC FACTORS; *ENVIRONMENTAL EDUCATION; *PREDICTION; *ENERGY CONSERVATION; EVALUATION; MODELS; NATURAL RESOURCES; PLANNING; VALUES; *CANADA

ISSUE: CIJE1978

ABSTRACT: ECONOMIC AND SOCIAL FEASIBILITY OF ENERGY CONSERVATION STRATEGIES ARE STUDIED FOR BOTH THE SHORT AND LONG TERM EFFECTS. ULTIMATELY THE PROBLEM OF INCREASING PER

CAPITA DISPOSABLE INCOME ALONG WITH INCREASING ENERGY CONSUMPTION MUST BE RESOLVED. CANADIANS MAY HAVE TO CHOOSE BETWEEN INCREASING PERSONAL WEALTH AND CHANGING THE SOCIAL STRUCTURE. (NA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: ALTERNATIVES; 7; 1: 48-54

ACCESSION NUMBER: EJ174306

CLEARINGHOUSE ACCESSION NUMBER: SE520650

PUBLICATION DATE: DEC 77

TITLE: THE CHEMISTRY OF OIL RECOVERY FROM BITUMINOUS SANDS

PERSONAL AUTHOR: HOCKING, M. B.

DESCRIPTOR: *CHEMISTRY; *ENERGY; *NATURAL RESOURCES; *PETROLEUM INDUSTRY; ENVIRONMENTAL EDUCATION; SCIENCE EDUCATION; SCIENCE MATERIALS; OIL

ISSUE: CIJE1978

ABSTRACT: DISCUSSES BITUMINOUS DEPOSITS AS COMMERCIAL SOURCES FOR OIL RECOVERY. DESCRIBES EXTRACTION PROCESS. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 54; 12: 723-9

ACCESSION NUMBER: EJ174482

CLEARINGHOUSE ACCESSION NUMBER: SE520951

PUBLICATION DATE: JAN 78

TITLE: CLASSROOM IDEAS

DESCRIPTOR: *LABORATORY TECHNIQUES; *SCIENCE ACTIVITIES; *SCIENCE EQUIPMENT; *SECONDARY SCHOOL SCIENCE; *SOLAR RADIATION; BIOLOGICAL SCIENCES; CHEMISTRY; ENERGY SCIENCE EDUCATION; SECONDARY EDUCATION

ISSUE: CIJE1978

ABSTRACT: DESCRIBED ARE A METHOD OF CULTIVATING EUGLENA, A METHOD FOR PRESENTING AND SOLVING MOLE EQUATIONS, AND A DESIGN OF A SIMPLE SOLAR COLLECTOR. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE TEACHER; 45; 1: 32-5

ACCESSION NUMBER: EJ175169

CLEARINGHOUSE ACCESSION NUMBER: CE507264

PUBLICATION DATE: JAN 78

TITLE: EXPLORING SOLAR POWER AT ZION-BENTON HIGH

PERSONAL AUTHOR: KASPER, RICK

DESCRIPTOR: *SOLAR RADIATION; *BUILDING TRADES; *VOCATIONAL EDUCATION; *ENERGY CONSERVATION; *FIELD EXPERIENCE PROGRAMS; *BUILDING DESIGN; SECONDARY EDUCATION; HOUSING; COMMUNITY INVOLVEMENT; ARCHITECTURAL ELEMENTS; ILLINOIS

ISSUE: CIJE1978

ABSTRACT: DEVELOPED TO PROVIDE STUDENTS WITH ACTUAL HANDS-ON EXPERIENCE IN CONSTRUCTING ENERGY-EFFICIENT HOMES AND TO INCREASE THE COMMUNITY'S AND STUDENTS' KNOWLEDGE OF SOLAR POWER AS AN ALTERNATE SOURCE OF ENERGY, A BUILDING TRADES PROGRAM AT A HIGH SCHOOL IN ZION, ILLINOIS HAS ITS STUDENTS BUILDING SINGLE-FAMILY SOLAR ENERGY HOMES. (BM)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AMERICAN VOCATIONAL JOURNAL; 53; 1: 54, 58-9

ACCESSION NUMBER: EJ175704

CLEARINGHOUSE ACCESSION NUMBER: EA509665

PUBLICATION DATE: NOV-DEC 77

TITLE: SELLING ENERGY DESIGN TO THE CLIENT

PERSONAL AUTHOR: KAYS, VON

DESCRIPTOR: *ENERGY CONSERVATION; *ARCHITECTS; *ARCHITECTURAL PROGRAMING; *FACILITY GUIDELINES; *CHANGE STRATEGIES; *RESPONSIBILITY; PHILOSOPHY; ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1978

ABSTRACT: THE ARCHITECT, AS A TRAINED, EXPERIENCED PROFESSIONAL, MUST GALVANIZE OTHERS, PERSUADING THEM OF THE ULTIMATE IMPORTANCE OF REDUCING ENERGY CONSUMPTION. THE INTERVIEW PROCESS, THE ACTUAL CONTRACT, AND WRITING OF THE PROGRAM ARE PHASES DURING WHICH THE ARCHITECT CAN BEGIN TO ENGENDER IN THE CLIENT A HIGH PRIORITY VALUATION OF ENERGY. (AUTHOR/MFP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: CEPP JOURNAL; 15; 6: 14-8, 20

ACCESSION NUMBER: EJ175892

CLEARINGHOUSE ACCESSION NUMBER: ME509751

PUBLICATION DATE: JAN/FEB 78

TITLE: HOW WE CUT ENERGY CONSUMPTION BY 25 PERCENT

DESCRIPTOR: *PHYSICAL FACILITIES; *ENERGY CONSERVATION; *FUEL CONSUMPTION; *EQUIPMENT MAINTENANCE; *SCHOOL MAINTENANCE; *COST EFFECTIVENESS; HIGHER EDUCATION; LIFE CYCLE COSTING; UTILITIES; HEATING; *UNIVERSITY OF ILLINOIS

ISSUE: CIJE1978

ABSTRACT: THE UNIVERSITY OF ILLINOIS' PROGRAM OF "QUICK FIX, REFIT, AND SYSTEMS CONVERT" IS DESCRIBED. LISTS ARE GIVEN SHOWING CONSERVATION MEASURES ALREADY TAKEN, UNDER WAY, OR UNDER ACTIVE CONSIDERATION. (LBM)

JOURNAL CITATION: AGB REPORTS; 20; 1: 37-8

ACCESSION NUMBER: EJ176183

CLEARINGHOUSE ACCESSION NUMBER: PS506556

PUBLICATION DATE: APR 78

TITLE: YOUR "EYE WITNESS" MEDIA CENTER...A FOCUS ON TODAY'S WORLD

PERSONAL AUTHOR: PILERI, IRIS

DESCRIPTOR: *ELEMENTARY EDUCATION; *INSTRUCTIONAL MATERIALS CENTERS; *CURRENT EVENTS; *FUTURES (OF SOCIETY); *INFORMATION DISSEMINATION

ISSUE: CIJE1978

ABSTRACT: PRESENTS IDEAS FOR ENHANCING THE ROLE OF THE SCHOOL LIBRARY MEDIA CENTER AS A DISPENSER OF TIMELY INFORMATION, REFLECTOR OF CURRENT TRENDS, AND GUIDE TO THE FUTURE. SUGGESTED PROJECTS FOCUS ON CURRENT EVENTS, WILDLIFE, ENERGY, NONSEXIST AND MINORITY RESOURCES, AND CLUBS. (JMB)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: INSTRUCTOR; 87; 9: 84-89

ACCESSION NUMBER: EJ176213

CLEARINGHOUSE ACCESSION NUMBER: RC502749

PUBLICATION DATE: OCT-NOV 77

TITLE: TASK FORCE II: ENERGY AND ITS SOCIOECONOMIC IMPACTS

DESCRIPTOR: *ECONOMIC DEVELOPMENT; *CONFERENCE REPORTS; *REGIONAL PLANNING; *ENERGY; *SOCIOECONOMIC INFLUENCES; *POLICY FORMATION; FEDERAL STATE RELATIONSHIP; REGIONAL CHARACTERISTICS; *APPALACHIA

ISSUE: CIJE1978

ABSTRACT: SUMMARIZING THE TASK FORCE ISSUES PAPER PRESENTED AT THE APPALACHIAN CONFERENCE ON BALANCED GROWTH AND ECONOMIC DEVELOPMENT (1977), THIS ARTICLE PRESENTS SELECTED COMMENTS BY TASK FORCE PARTICIPANTS, AND TASK FORCE RECOMMENDATIONS RE: A NATIONAL SEVERANCE TAX ON EXTRACTION OF NONRENEWABLE ENERGY RESOURCES; SOCIOECONOMIC COSTS OF NUCLEAR ENERGY; A UNIFORM NATIONAL POLICY; ETC. (JC)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: APPALACHIA; 11; 2: 28-34

ACCESSION NUMBER: EJ176246

CLEARINGHOUSE ACCESSION NUMBER: SE520787

PUBLICATION DATE: JAN 78

TITLE: A SOLAR HOUSE FOR NORTHERN LATITUDES

PERSONAL AUTHOR: STINNER, ARTHUR O.

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *HEATING; *INSTRUCTION; *SECONDARY SCHOOL SCIENCE; *SOLAR RADIATION; HEAT; PHYSICS; SCIENCE EDUCATION; SECONDARY EDUCATION

ISSUE: CIJE1978

ABSTRACT: DISCUSSES THE FEASIBILITY OF SOLAR HOUSING FOR NORTHERN LATITUDES. (SL)

JOURNAL CITATION: PHYSICS TEACHER; 16; 1: 25-30

ACCESSION NUMBER: EJ176292

CLEARINGHOUSE ACCESSION NUMBER: SE521013

PUBLICATION DATE: JAN 78

TITLE: EER, COP, AND THE SECOND LAW EFFICIENCY FOR AIR CONDITIONERS

PERSONAL AUTHOR: LEFF, HARVEY S.; TEETERS, WILLIAM D.

DESCRIPTOR: *COLLEGE SCIENCE; *ENERGY; *INSTRUCTION; *PHYSICS; *THERMODYNAMICS; AIR CONDITIONING; HEAT; HIGHER EDUCATION; MECHANICS (PHYSICS); SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: DESCRIBES THE RELATIONSHIP EXISTING BETWEEN COEFFICIENT OF PERFORMANCE (COP) AND ENERGY EFFICIENCY RATIO (EER) IN AIR CONDITIONING UNITS AND INTRODUCES NEW EFFICIENCY PARAMETERS MEASURED RELATIVE TO THE ENERGY EXTRACTED FROM THE PRIMARY ENERGY SOURCE. (SL)

JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS; 44: 1: 19-22

ACCESSION NUMBER: EJ176312

CLEARINGHOUSE ACCESSION NUMBER: SE521116

PUBLICATION DATE: FEB 78

TITLE: ENERGY EXPERIMENTS FOR NONSCIENCE MAJORS

PERSONAL AUTHOR: SOKOLOFF, DAVID R.

DESCRIPTOR: *COLLEGE SCIENCE; *ENERGY; *EXPERIMENTS;
*INSTRUCTIONAL MATERIALS; *SCIENCE COURSES; *SCIENCE
EXPERIMENTS; HIGHER EDUCATION; LABORATORY EXPERIMENTS;
SCIENCE ACTIVITIES; SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: DESCRIBES FOUR SCIENCE EXPERIMENTS RELATING TO
ENERGY DEVELOPED FOR INTERDISCIPLINARY GENERAL SCIENCE
COURSES. (SL)

JOURNAL CITATION: PHYSICS TEACHER; 16: 2: 86-91

ACCESSION NUMBER: EJ176316

CLEARINGHOUSE ACCESSION NUMBER: SE521114

PUBLICATION DATE: FEB 78

TITLE: ENERGY IN THE ATMOSPHERE

PERSONAL AUTHOR: LAWS, KENNETH L.

DESCRIPTOR: *ENERGY; *INSTRUCTION; *PHYSICS; *SCIENCE
ACTIVITIES; *SECONDARY SCHOOL SCIENCE; *SOLAR RADIATION;
HEAT; SCIENCE EDUCATION; SECONDARY EDUCATION

ISSUE: CIJE1978

ABSTRACT: DESCRIBES EXERCISES FOR STUDENTS TO ESTIMATE THE
MAGNITUDE OF ENERGY AVAILABLE THROUGH SOLAR POWER, WIND,
ATMOSPHERIC ELECTRICITY, HEAT CAPACITY OF AIR, AND LATENT
HEAT OF AIR. (SL)

JOURNAL CITATION: PHYSICS TEACHER; 16: 2: 101-3

ACCESSION NUMBER: EJ176342

CLEARINGHOUSE ACCESSION NUMBER: SE521240

PUBLICATION DATE: FEB 78

TITLE: THERMOGRAPHY

PERSONAL AUTHOR: WYZER, WILLIAM G.

DESCRIPTOR: *EQUIPMENT EVALUATION; *HEAT; *LABORATORY
EQUIPMENT; *PHYSICS; *SCIENCE EQUIPMENT; EDUCATIONAL
EQUIPMENT; ENERGY EQUIPMENT; PHYSICAL SCIENCES; SCIENCE
EDUCATION

ISSUE: CIJE1978

ABSTRACT: REVIEWS INSTRUMENTS AVAILABLE FOR PHOTOGRAPHING
AND RECORDING HEAT FLOW AND TEMPERATURES IN OBJECTS. (SL)

JOURNAL CITATION: RESEARCH/DEVELOPMENT; 29: 2: 44-50

ACCESSION NUMBER: EJ176383

CLEARINGHOUSE ACCESSION NUMBER: S0506167

PUBLICATION DATE: FEB 78

TITLE: TOWARD A GEOGRAPHY OF ENERGY: A REVIEW OF BASIC
SOURCES AND LITERATURE

PERSONAL AUTHOR: FITZSIMMONS, ALLAN K.; WALTON, KEITH J.

DESCRIPTOR: *GEOGRAPHY INSTRUCTION; *RESOURCE GUIDES;
*INSTRUCTIONAL MATERIALS; *ENERGY; *FUEL CONSUMPTION;
ENVIRONMENTAL EDUCATION; POLLUTION; GEOGRAPHIC CONCEPTS;
POLITICAL ISSUES; ELEMENTARY SECONDARY EDUCATION

ISSUE: CIJE1978

ABSTRACT: A BRIEF GUIDE TO SOURCES OF MATERIALS TO HELP
GEOGRAPHY TEACHERS INCORPORATE ENERGY ISSUES INTO COURSE
CONTENT. DESCRIBES 15 BOOKS AND SIX DATA SOURCES WHICH FOCUS
ON TOPICS SUCH AS TRENDS IN FUEL PRODUCTION AND CONSUMPTION,
TRADE IN ENERGY SUPPLIES, AND ENVIRONMENTAL AND POLITICAL
IMPLICATIONS OF FUEL PRODUCTION AND TRANSPORT. (AUTHOR/AV)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: JOURNAL OF GEOGRAPHY; 77: 1: 61-8

ACCESSION NUMBER: EJ176412

CLEARINGHOUSE ACCESSION NUMBER: S0506196

PUBLICATION DATE: APR 78

TITLE: WHAT SHOULD BE THE ROLE OF MAJOR AMERICAN COMPANIES
AND CORPORATIONS IN THE PROTECTION AND DEVELOPMENT OF ENERGY
RESOURCES?

PERSONAL AUTHOR: DEBUTTS, JOHN D.; AND OTHERS

DESCRIPTOR: *SOCIAL STUDIES; *ENERGY; *EVALUATION;
*BUSINESS RESPONSIBILITY; *QUESTION ANSWER INTERVIEWS;
ENERGY CONSERVATION; EXPECTATION; ECONOMIC CLIMATE;
GOVERNMENT ROLE; POLICY FORMATION

ISSUE: CIJE1978

ABSTRACT: CHAIRMEN OF SIX AMERICAN CORPORATIONS RESPOND TO
QUESTIONS ON ENERGY CONSERVATION AND DEVELOPMENT.
CORPORATIONS ARE AMERICAN TELEPHONE AND TELEGRAPH, IBM,
UNITED STATES STEEL, EXXON, GENERAL MOTORS, AND DU PONT DE
NEMOURS. RECOMMENDATIONS INCLUDE CREATION OF A NATIONAL
ENERGY POLICY, REDUCTION OF WASTEFUL USES OF ENERGY, AND
INCREASED EFFORTS IN THE SEARCH FOR ALTERNATIVE SOURCES OF
ENERGY. (AUTHOR/DB)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: SOCIAL EDUCATION; 42: 4: 304-9

ACCESSION NUMBER: EJ176620

CLEARINGHOUSE ACCESSION NUMBER: UD505908

PUBLICATION DATE: DEC 77

TITLE: SCHOOLS FOR THE FUTURE

PERSONAL AUTHOR: LEWIN, JACQUELINE

DESCRIPTOR: *COST EFFECTIVENESS; *ENERGY CONSERVATION;
*SCHOOL ARCHITECTURE; *SCHOOL DESIGN; *SOLAR RADIATION; AIR
CONDITIONING; CONSTRUCTION COSTS; HEATING

ISSUE: CIJE1978

ABSTRACT: BECAUSE THERE ARE MORE SCHOOLS THAN ANY OTHER
TYPE OF PUBLIC BUILDING, SCHOOLS ARE ARCHITECTURAL
BELLWETHERS. THE FIRST REFLECTION OF SHIFTS IN NATIONAL
PRIORITIES. IN THIS ARTICLE ARCHITECTURAL TRENDS IN
EDUCATIONAL INSTITUTIONS ARE DISCUSSED IN RELATION TO ENERGY
CONSERVATION. EXAMPLES ARE OFFERED OF SCHOOLS WHICH UTILIZE
SOLAR ENERGY. (AUTHOR/GC)

JOURNAL CITATION: AMERICAN EDUCATOR; 1: 4: 2-7

ACCESSION NUMBER: EJ178295

CLEARINGHOUSE ACCESSION NUMBER: SE519755

PUBLICATION DATE: JUL 77

TITLE: RADIATION AND THE ENVIRONMENT: A RELEVANT COURSE ON
A TOPICAL SUBJECT

PERSONAL AUTHOR: PARKER, RICHARD C.

DESCRIPTOR: *COURSE DESCRIPTIONS; *GRADUATE STUDENTS;
*PHYSICAL SCIENCES; *RADIATION EFFECTS; ATTITUDES;
ENVIRONMENTAL EDUCATION; HIGHER EDUCATION; INSTRUCTION;
NUCLEAR PHYSICS; POLLUTION; SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: A DESCRIPTION IS GIVEN OF A THREE CREDIT-HOUR
COURSE ENTITLED RADIATION AND THE ENVIRONMENT. THE COURSE
SYLLABUS ALONG WITH DESCRIPTIONS AND CRITICISMS OF THE
COURSE TEXTS, ARE INCLUDED. ALSO, SOME QUOTES FROM STUDENT'S
PAPERS ARE PRESENTED INDICATING ATTITUDES TOWARD NUCLEAR
ENERGY AT THE END OF THE COURSE. (MR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 54: 7: 435

ACCESSION NUMBER: EJ178313

CLEARINGHOUSE ACCESSION NUMBER: SE520074

PUBLICATION DATE: OCT 77

TITLE: TOWARD A SOLAR CIVILIZATION

PERSONAL AUTHOR: HIPPEL, FRANK VON; WILLIAMS, ROBERT M.

DESCRIPTOR: *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION;
*SCIENCE EDUCATION; *SOLAR RADIATION; *TECHNOLOGICAL
ADVANCEMENT; CONTROLLED ENVIRONMENT; DEPLETED RESOURCES;
FUEL CONSUMPTION; FUTURES (OF SOCIETY); NATURAL RESOURCES

ISSUE: CIJE1978

ABSTRACT: THE FUTURE OF SOLAR ENERGY IS EXAMINED
ENVIRONMENTALLY, SOCIALLY, AND ECONOMICALLY. COAL AND
NUCLEAR FISSION ARE DISCUSSED AS LONG-RANGE ENERGY
ALTERNATIVES AND U. S. REGIONAL STRATEGIES ARE SUGGESTED.
DISCUSSED IN DETAIL ARE LOW TEMPERATURE SOLAR HEAT, SOLAR
ELECTRICITY, AND CHEMICAL FUELS FROM SOLAR ENERGY. (MR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 33: 8: 12-5

ACCESSION NUMBER: EJ178314

CLEARINGHOUSE ACCESSION NUMBER: SE520075

PUBLICATION DATE: OCT 77

TITLE: WE MUST MOVE FORWARD WITH ALL DELIBERATE SPEED

PERSONAL AUTHOR: EKLUND, SIGVARD

DESCRIPTOR: *ENERGY; *ENVIRONMENTAL EDUCATION; *NATURAL
RESOURCES; *SCIENCE EDUCATION; *TECHNOLOGICAL ADVANCEMENT;
DEPLETED RESOURCES; ENERGY CONSERVATION; FUELS; FUTURES (OF
SOCIETY); UTILITIES; NUCLEAR POWER

ISSUE: CIJE1978

ABSTRACT: THIS ARTICLE REPORTS THE STATUS OF NUCLEAR POWER
PRODUCTION INTERNATIONALLY. TOPICS DISCUSSED INCLUDE THE
FUEL CYCLE, ENVIRONMENTAL ASPECTS, DEVELOPING COUNTRIES, AND
SAFEGUARDS SYSTEMS. IT IS RECOMMENDED THAT THE DEVELOPMENT
OF NUCLEAR ENERGY SHOULD BE SWIFT TO AVOID A WORLDWIDE
ENERGY CRISIS BY THE END OF THE CENTURY. (MR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTISTS; 33; 81
42-7

ACCESSION NUMBER: EJ178324

CLEARINGHOUSE ACCESSION NUMBER: SE920553

PUBLICATION DATE: DEC 77

TITLE: ENERGY CHOICES FOR CONSUMERS

PERSONAL AUTHOR: MOLAN, WILLIAM T.

DESCRIPTOR: *CONSUMER EDUCATION; *ELECTRICITY; *ENERGY
CONSERVATION; *NATURAL RESOURCES; *SCIENCE ACTIVITIES; FUEL
CONSUMPTION; SCIENCE EDUCATION; SECONDARY EDUCATION;
SECONDARY SCHOOL SCIENCE; UTILITIES

ISSUE: CIJE1978

ABSTRACT: SAMPLE PROBLEMS CONCERNING ENERGY CONSUMPTION AND
CONSERVATION WITH AIR CONDITIONERS, ELECTRIC RANGES,
REFRIGERATORS AND TELEVISIONS ARE PROVIDED. THE ENERGY
EFFICIENCY RATIO (EER) IS ALSO DISCUSSED. (CP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE TEACHER; 44; 9; 32-3

ACCESSION NUMBER: EJ178413

CLEARINGHOUSE ACCESSION NUMBER: SE921096

PUBLICATION DATE: JAN 78

TITLE: SOLAR ENERGY CONCEPTS IN THE TEACHING OF CHEMISTRY

PERSONAL AUTHOR: CANTRELL, JOSEPH S.

DESCRIPTOR: *CHEMISTRY; *COLLEGE SCIENCES; *ENERGY;
*INSTRUCTION; *SOLAR RADIATION; *CHEMICAL REACTIONS;
EDUCATIONAL NEEDS; HIGHER EDUCATION; SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: DISCUSSES THE NEED TO INCLUDE INSTRUCTION ON
SOLAR ENERGY CONCEPTS IN CHEMISTRY COURSES. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 55; 1;
41-2

ACCESSION NUMBER: EJ178444

CLEARINGHOUSE ACCESSION NUMBER: SE921276

PUBLICATION DATE: FEB 78

TITLE: EFFECTS OF FEDERAL RESIDENTIAL ENERGY CONSERVATION
PROGRAMS

PERSONAL AUTHOR: HIRST, ERIC; CARNEY, JANET

DESCRIPTOR: *CONSERVATION (ENVIRONMENT); *ECONOMICS;
*ENERGY; *FUTURES (OF SOCIETY); *SIMULATION; ENERGY
CONSERVATION; FEDERAL PROGRAMS; FUELS; HOUSING INDUSTRY;
MODELS; TRANSPORTATION

ISSUE: CIJE1978

ABSTRACT: AN ENGINEERING-ECONOMIC SIMULATION MODEL OF
RESIDENTIAL ENERGY USE IS EMPLOYED TO EVALUATE THE EFFECTS
OF NINE DIFFERENT RESIDENTIAL ENERGY-USE "FUTURES" AS TO
ECONOMIC IMPACT ON AMERICANS TO THE YEAR 2000. (AUTHOR/CP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE; 199; 4331; 845-51

ACCESSION NUMBER: EJ178608

CLEARINGHOUSE ACCESSION NUMBER: S0506312

PUBLICATION DATE: MAR 78

TITLE: SOME BASICS FOR TEACHING AND EVALUATING ENERGY
CONSERVATION IN THE HOME

PERSONAL AUTHOR: MCDOLL, ROBERT W.

DESCRIPTOR: *GEOGRAPHY INSTRUCTION; *TEACHING TECHNIQUES;
*ENERGY CONSERVATION; *CLIMATE CONTROL; *ENVIRONMENTAL
INFLUENCES; HOME MANAGEMENT; CONSERVATION EDUCATION;
ECOLOGICAL FACTORS; HIGHER EDUCATION

ISSUE: CIJE1978

ABSTRACT: EXAMINES METHODS FOR DETERMINING THERMAL
EFFICIENCY AND MEASURING HEAT LOSS IN THE HOME. SUGGESTS
WAYS TO CONSERVE ENERGY BASED UPON (1) CLIMATIC ENVIRONMENT
AND ITS IMPACT ON A STRUCTURE, (2) PHYSICAL LOCATION OF
BUILDINGS AND THEIR MICROCLIMATE, AND (3) BEHAVIOR
MODIFICATION OF THE INHABITANTS. (AUTHOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: JOURNAL OF GEOGRAPHY; 77; 3; 94-9

ACCESSION NUMBER: EJ178611

CLEARINGHOUSE ACCESSION NUMBER: S0506315

PUBLICATION DATE: MAR 78

TITLE: HOOKING THE GEOGRAPHER IN CHILDREN WITH FIELD-BASED

STUDIES

PERSONAL AUTHOR: KRALL, FLORENCE; AND OTHERS

DESCRIPTOR: *GEOGRAPHY INSTRUCTION; *TEACHING TECHNIQUES;
*ENVIRONMENTAL EDUCATION; *CONSERVATION EDUCATION; *FIELD
TRIPS; INTERDISCIPLINARY APPROACH; THEMATIC APPROACH;
INQUIRY TRAINING; LEARNING ACTIVITIES; ELEMENTARY EDUCATION

ISSUE: CIJE1978

ABSTRACT: SUGGESTS PROJECTS TO HELP ELEMENTARY STUDENTS
LEARN ABOUT MAN-LAND RELATIONSHIPS THROUGH FIELD EXPERIENCE,
INQUIRY TECHNIQUES, AND A THEMATIC, INTERDISCIPLINARY
APPROACH. CHILDREN STUDY A NATURAL COMMUNITY, A HUMAN
COMMUNITY, SOLID WASTES, AND ENERGY CONSERVATION.
(AUTHOR/AV)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: JOURNAL OF GEOGRAPHY; 77; 3; 108-10

ACCESSION NUMBER: EJ178800

CLEARINGHOUSE ACCESSION NUMBER: CE907402

PUBLICATION DATE: MAR 78

TITLE: ENERGY AND OCCUPATIONAL EDUCATION

PERSONAL AUTHOR: ANSELL, SHERMAN D.

DESCRIPTOR: *ENERGY CONSERVATION; *EDUCATIONAL NEEDS;
*CURRICULUM DEVELOPMENT; INDUSTRIAL TECHNOLOGY; EDUCATIONAL
PLANNING; VOCATIONAL EDUCATION; VOCATIONAL RETRAINING;
EMPLOYMENT POTENTIAL; *EMERGING OCCUPATIONS; *ENERGY
TECHNOLOGY; ENERGY RELATED INDUSTRIES; WISCONSIN

ISSUE: CIJE1978

ABSTRACT: EXAMINES THE POTENTIAL CHANGES THAT DISLOCATIONS
IN ENERGY SOURCES AND USES WOULD HAVE ON VOCATIONAL TRAINING
IN WISCONSIN AND THE NEW ENERGY TECHNOLOGIES WHICH WILL
REQUIRE CURRICULUM CHANGE OR DEVELOPMENT. (MF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: WISCONSIN VOCATIONAL EDUCATOR; 2; 3; 7-9

ACCESSION NUMBER: EJ178839

CLEARINGHOUSE ACCESSION NUMBER: CE907441

PUBLICATION DATE: APR 78

TITLE: THE EFFECTS OF THE ENERGY SITUATION ON INDUSTRIAL
EDUCATION

PERSONAL AUTHOR: TANGHAN, EDWARD P.

DESCRIPTOR: *ENERGY CONSERVATION; *INDUSTRIAL EDUCATION;
CURRICULUM DEVELOPMENT; TEACHER ROLE; COMMUNITY ROLE;
INFORMATION SOURCES; PROGRAM PLANNING

ISSUE: CIJE1978

ABSTRACT: THE AUTHOR OUTLINES APPROACHES FOR INDUSTRIAL
EDUCATORS IN HELPING TO RESOLVE ENERGY CONSERVATION
PROBLEMS, INCLUDING CURRICULUM DEVELOPMENT IN ALL GRADES,
STAFF DEVELOPMENT, OPERATIONS FACILITIES, AND LEARNING
ACTIVITIES. HE NAMES SEVERAL SOURCES OF INFORMATION ON
ENERGY INFORMATION AND EDUCATION. (MF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: INDUSTRIAL EDUCATION; 67; 4; 18,21-2

ACCESSION NUMBER: EJ178844

CLEARINGHOUSE ACCESSION NUMBER: CE907446

PUBLICATION DATE: APR 78

TITLE: A GAS IN YOUR POWER SHOP

PERSONAL AUTHOR: WHITE, MICHAEL R.; FISCHLER, MATTHIAS E.

DESCRIPTOR: *FUELS; *LABORATORY EXPERIMENTS; *WASTES;
*SCHOOL SHOPS; ENERGY CONSERVATION; ORGANIC CHEMISTRY;
INDUSTRIAL ARTS; LABORATORY SAFETY; *METHANE GAS GENERATION;
ENERGY SOURCES

ISSUE: CIJE1978

ABSTRACT: PRINCIPLES, METHODS, AND MATERIALS FOR A
LABORATORY EXPERIMENT IN THE GENERATION OF METHANE GAS AS AN
ALTERNATIVE ENERGY SOURCE ARE DESCRIBED AND ILLUSTRATED BY
AN INDUSTRIAL ARTS PROFESSOR AND STUDENT FOR STUDENTS IN
POWER AND ENERGY. (MF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: INDUSTRIAL EDUCATION; 67; 4; 46-8

ACCESSION NUMBER: EJ179523

CLEARINGHOUSE ACCESSION NUMBER: IR505174

PUBLICATION DATE: JAN 78

TITLE: ENERGY INFORMATION ONLINE

PERSONAL AUTHOR: MILLER, BETTY

DESCRIPTOR: *DATA BASES; *ENERGY; *INFORMATION RETRIEVAL;
ON LINE SYSTEMS

ISSUE: CIJE1978

ABSTRACT: THE NEED TO SEARCH SEVERAL FILES TO OBTAIN THE

MAXIMUM INFORMATION ON ENERGY IS EMPHASIZED. ENERGYLINE, APPLIED, APICAT, PLE NEWS, TIRA, NTL, AND CHEMICAL ABSTRACTS CONDENSATES FILES ARE DESCRIBED. (RP)

JOURNAL CITATION: ONLINE; 21: 11: 27-30

ACCESSION NUMBER: EJ179745

CLEARINGHOUSE ACCESSION NUMBER: SE519663

PUBLICATION DATE: JUL 77

TITLE: LABORATORY EXPERIMENTS WITH SILICON SOLAR CELLS

PERSONAL AUTHOR: KAMMER, D. W.; LUDINGTON, W. A.

DESCRIPTOR: *COLLEGE SCIENCE; *ELECTRICITY; *INSTRUCTIONAL MATERIALS; *PHYSICS; *SCIENCE ACTIVITIES; *SOLAR RADIATION; *SCIENCE EDUCATION; *HIGHER EDUCATION; *INSTRUCTION; *SCIENCE EDUCATION; *SCIENCE EXPERIMENTS

ISSUE: CIJE1978

ABSTRACT: PRESENTS BASIC THEORY OF SILICON SOLAR CELLS AND DISCUSSES THEIR USE IN EXPERIMENTS IN UNDERGRADUATE TEACHING LABORATORIES. (SL)

JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS; 45; 71: 602-5

ACCESSION NUMBER: EJ179802

CLEARINGHOUSE ACCESSION NUMBER: SE519977

PUBLICATION DATE: OCT 77

TITLE: ENERGY SYSTEMS EDUCATION

PERSONAL AUTHOR: ODHM, ELISABETH C.; ODHM, HOWARD T.

DESCRIPTOR: *EDUCATIONAL STRATEGIES; *ENERGY; *LEARNING ACTIVITIES; *SCIENCE TEACHERS; *ENVIRONMENTAL EDUCATION; *SCIENCE EDUCATION; *SYMBOLIC LEARNING; *SYSTEMS APPROACH; *TEACHING METHODS

ISSUE: CIJE1978

ABSTRACT: PRESENTS A WAY TO TEACH ENERGY, ECONOMICS, SYSTEMS AND ENVIRONMENT AS A WHOLE, USING SYMBOLS, SYMBOLIC REPRESENTATIONS OF ENERGY SYSTEMS AND SEVERAL TEACHING ACTIVITY SUGGESTIONS ARE INCLUDED. (MR)

JOURNAL CITATION: AMERICAN BIOLOGY TEACHER; 39; 71: 420-3

ACCESSION NUMBER: EJ179843

CLEARINGHOUSE ACCESSION NUMBER: SE520061

PUBLICATION DATE: JUN 77

TITLE: A FIELD COURSE BASED ON THE COMMUNITY ENERGY FLOW APPROACH

PERSONAL AUTHOR: TOWNSEND, COLIN; PHILLIPSON, JOHN

DESCRIPTOR: *BIOLOGY; *ECOLOGY; *FIELD INSTRUCTION; *SCIENCE ACTIVITIES; *COLLEGE SCIENCE; *ENERGY; *ENVIRONMENTAL EDUCATION; *HIGHER EDUCATION; *INSTRUCTIONAL MATERIALS; *SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: THE CONCEPT OF COMMUNITY ENERGY FLOW PROVIDES A BASIS FOR A FIELD COURSE. THIS PAPER DESCRIBES THE METHODOLOGY USED IN A FIELD COURSE FOR ESTIMATING PARAMETERS AND FOR MONITORING PHYSICAL ENVIRONMENTAL VARIABLES. THE PAPER CULMINATES IN THE CONSTRUCTION OF A MODEL OF ENERGY FLOW THROUGH THE COMMUNITY. (AUTHOR/MA)

JOURNAL CITATION: JOURNAL OF BIOLOGICAL EDUCATION; 11; 2: 121-32

ACCESSION NUMBER: EJ179857

CLEARINGHOUSE ACCESSION NUMBER: SE520279

PUBLICATION DATE: NOV 77

TITLE: SOLAR FURNACE MODEL

PERSONAL AUTHOR: PALMER, DENNIS L.; OLSEN, RICHARD W.

DESCRIPTOR: *ENERGY; *INSTRUCTIONAL MATERIALS; *LEARNING ACTIVITIES; *SCIENCE EDUCATION; *SCIENCE PROJECTS; *SOLAR RADIATION; *ADULT EDUCATION; *HIGHER EDUCATION; *MODELS; *SECONDARY EDUCATION; *SOLAR FURNACE

ISSUE: CIJE1978

ABSTRACT: DESCRIBED IS HOW TO BUILD A SOLAR FURNACE MODEL. A DETAILED LIST OF MATERIALS AND METHODS ARE INCLUDED ALONG WITH DIAGRAMS. THIS PARTICULAR ACTIVITY IS PART OF AN AUDIOTUTORIAL UNIT CONCERNED WITH THE ENERGY CRISIS AND ENERGY ALTERNATIVES. (MA)

JOURNAL CITATION: AMERICAN BIOLOGY TEACHER; 39; 8: 496-7,505

ACCESSION NUMBER: EJ179861

CLEARINGHOUSE ACCESSION NUMBER: SE520350

PUBLICATION DATE: SEP 77

TITLE: THE EKOFISK ACCIDENT ITS ENVIRONMENTAL AND POLITICAL IMPLICATIONS

PERSONAL AUTHOR: WALLENBERG, BENGT

DESCRIPTOR: *ECONOMICS; *ENVIRONMENTAL EDUCATION; *POLITICS; *WATER POLLUTION CONTROL; *WATER RESOURCES; *ECOLOGICAL FACTORS; *FUELS; *NATURAL RESOURCES; *PHYSICAL ENVIRONMENT; *SCIENCE EDUCATION; *OFFSHORE DRILLING

ISSUE: CIJE1978

ABSTRACT: THE INFORMATION COLLECTED FROM THE ACCIDENT AT THE EKOFISK OFFSHORE OIL FIELD IS USED TO EXAMINE THE ENVIRONMENTAL CONSEQUENCES AND THE COSTS OF MARINE OIL POLLUTION. AS OFFSHORE DRILLINGS INCREASE THROUGHOUT THE WORLD, THERE IS A NEED FOR MORE INFORMATION ON THIS POLLUTION PROBLEM AND FOR MORE COOPERATION AMONG NATIONS. (MA)

JOURNAL CITATION: OECD OBSERVER; 88; 9-12

ACCESSION NUMBER: EJ179862

CLEARINGHOUSE ACCESSION NUMBER: SE520351

PUBLICATION DATE: SEP 77

TITLE: RADIOACTIVE WASTE...THE PROBLEM AND SOME POSSIBLE SOLUTIONS

PERSONAL AUTHOR: OLIVIER, JEAN-PIERRE

DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *FUELS; *WASTE DISPOSAL; *MANAGEMENT; *NATURAL RESOURCES; *POLLUTION; *RECYCLING; *SCIENCE EDUCATION; *RADIOACTIVE WASTES

ISSUE: CIJE1978

ABSTRACT: NUCLEAR SAFETY IS A HIGHLY TECHNICAL AND CONTROVERSIAL SUBJECT THAT HAS CAUSED MUCH HEATED DEBATE AND POLITICAL CONCERN. THIS ARTICLE EXAMINES THE PROBLEMS INVOLVED IN MANAGING RADIOACTIVE WASTES AND THE TECHNIQUES NOW USED. POTENTIAL SOLUTIONS ARE SUGGESTED AND THE NEED FOR INTERNATIONAL COOPERATION IS STRESSED. (AUTHOR/MA)

JOURNAL CITATION: OECD OBSERVER; 88; 13-9

ACCESSION NUMBER: EJ180014

CLEARINGHOUSE ACCESSION NUMBER: SE521299

PUBLICATION DATE: FEB 78

TITLE: CHEM ED COMPACTS

PERSONAL AUTHOR: WOLF, WALTER A., ED.

DESCRIPTOR: *CHEMISTRY; *COLLEGE SCIENCE; *INSTRUCTION; *TEACHING METHODS; *TEACHING TECHNIQUES; *ENERGY; *HIGHER EDUCATION; *ORGANIC CHEMISTRY; *PHYSICAL SCIENCES; *SCIENCE EDUCATION; *SCIENCE UNITS

ISSUE: CIJE1978

ABSTRACT: PRESENTS TEACHING NOTES ON THE TOPICS OF POWERS OF TEN NOTATIONS, PHYSICAL CHEMISTRY PROJECTS INVOLVING NATURAL PRODUCTS, CALORIMETRY, AND SOLAR ENERGY, AND LEARNING ORGANIC CHEMISTRY BY PLAYING CARDS. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UNI

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 55; 2: 103

ACCESSION NUMBER: EJ180143

CLEARINGHOUSE ACCESSION NUMBER: SE521537

PUBLICATION DATE: APR/MAY 78

TITLE: HOW SOLAR ENERGY CAN WORK FOR YOU

PERSONAL AUTHOR: IKER, SAM

DESCRIPTOR: *ENERGY CONSERVATION; *HEATING; *HOUSING; *SOLAR RADIATION; *UTILITIES; *BUILDING IMPROVEMENT; *CONSERVATION EDUCATION; *ENVIRONMENT; *ENVIRONMENTAL EDUCATION; *SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: THE FUTURE OF SOLAR HEATED HOMES LOOKS BRIGHT. THE INCREASE IN AVAILABILITY OF SOLAR HARDWARE AND INFORMATION ALONG WITH TAX CREDITS POINT TO AN INCREASE IN BOTH SOLAR WATER AND SPACE HEATING. SOLAR SYSTEMS CAN ADD TO THE VALUE OF A HOUSE. (BB)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UNI

JOURNAL CITATION: NATIONAL WILDLIFE; 16; 3: 40-3

ACCESSION NUMBER: EJ180155

CLEARINGHOUSE ACCESSION NUMBER: SE521558

PUBLICATION DATE: MAR 78

TITLE: ENERGY EDUCATION AND THE THREE C'S

PERSONAL AUTHOR: DUGGAN, DONALD D.

DESCRIPTOR: *COURSE CONTENT; *CURRICULUM DEVELOPMENT; *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *CONSUMER EDUCATION; *ENERGY; *FEDERAL PROGRAMS; *GOVERNMENT ROLE; *INSTRUCTIONAL MATERIALS; *SCIENCE EDUCATION; *DEPARTMENT OF ENERGY; *ENERGY EDUCATION; *DOE

ISSUE: CIJE1978

ABSTRACT: ENERGY EDUCATION IS DEFINED AND THREE APPROACHES, CITIZEN, CAREER, CONSUMER, ARE SUGGESTED AND EXPLAINED. A RATIONALE FOR ENERGY EDUCATION IN THE SCHOOLS IS GIVEN AND THE FEDERAL ROLE IN ENERGY EDUCATION IS EXPLAINED. THE CURRICULUM DEVELOPMENT EFFORTS OF THE DEPARTMENT OF ENERGY ARE MENTIONED AND A LIST OF ENERGY CURRICULUM MATERIALS IS

INCLUDED. (MOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE AND CHILDREN: 19: 6: 7-12

ACCESSION NUMBER: EJ180156

CLEARINGHOUSE ACCESSION NUMBER: SE521559

PUBLICATION DATE: MAR 78

TITLE: ENERGY: PRESENT PROBLEMS AND FUTURE POTENTIAL

PERSONAL AUTHOR: FOWLER, JOHN W.

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *RESOURCE ALLOCATIONS; *TECHNOLOGICAL ADVANCEMENTS; *WORLD PROBLEMS; *EFFICIENCY; *ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES; *SCIENCE EDUCATION; *ENERGY EDUCATION

ISSUE: CIJE1978

ABSTRACT: ASSESSES THE CURRENT ENERGY PROBLEMS AND CONSIDERS POSSIBLE SOLUTIONS. (MOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE AND CHILDREN: 19: 6: 13-7

ACCESSION NUMBER: EJ180157

CLEARINGHOUSE ACCESSION NUMBER: SE521560

PUBLICATION DATE: MAR 78

TITLE: ENERGY EDUCATION IN THE FIRST GRADE

PERSONAL AUTHOR: CRATER, HAROLD L.; CRATER, W. WENDY

DESCRIPTOR: *ELEMENTARY SCHOOL SCIENCE; *ENERGY CONSERVATION; *GRADE 1; *INSTRUCTION; *UNITS OF STUDY; *COURSE CONTENT; *ELEMENTARY EDUCATION; *ENERGY; *ENVIRONMENTAL EDUCATION; *SCIENCE ACTIVITIES; *ENERGY EDUCATION

ISSUE: CIJE1978

ABSTRACT: DESCRIBED IS A FIELD TEST OF THE NSTA "PROJECT FOR AN ENERGY ENRICHED CURRICULUM," ENTITLED "THE ENERGY WE USE." THE MATERIAL WAS TESTED IN HOLLY SPRINGS, MISSISSIPPI. (MOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE AND CHILDREN: 19: 6: 18-9

ACCESSION NUMBER: EJ180158

CLEARINGHOUSE ACCESSION NUMBER: SE521561

PUBLICATION DATE: MAR 78

TITLE: SOLAR ENERGY-AN EVERYDAY OCCURRENCE

PERSONAL AUTHOR: KEISTER, CAROLE; CORNELL, LU BETH

DESCRIPTOR: *ELEMENTARY SCHOOL SCIENCE; *ENERGY; *ENVIRONMENTAL RESEARCH; *SOLAR RADIATION; *STUDENT INTERESTS; *ELEMENTARY EDUCATION; *ENVIRONMENTAL EDUCATION; *NATURAL RESOURCES; *SCIENCE ACTIVITIES; *SCIENCE EDUCATION; *ENERGY EDUCATION

ISSUE: CIJE1978

ABSTRACT: DESCRIBES A SOLAR ENERGY RESEARCH PROJECT SPONSORED BY THE ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION AND CONDUCTED AT TIRONIUM SCHOOL IN MARYLAND. ELEMENTARY STUDENT INVOLVEMENT IN SOLAR ENERGY STUDIES RESULTING FROM THE PROJECT IS NOTED. (MOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE AND CHILDREN: 19: 6: 20-1

ACCESSION NUMBER: EJ180159

CLEARINGHOUSE ACCESSION NUMBER: SE521562

PUBLICATION DATE: MAR 78

TITLE: REFUEL HERE FOR ENERGY CONSERVATION IDEAS

PERSONAL AUTHOR: HOGUE, JUNE; SIMMONS, BARBARA

DESCRIPTOR: *ELEMENTARY EDUCATION; *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *INSTRUCTIONAL MATERIALS; *INTERDISCIPLINARY APPROACH; *CONSERVATION EDUCATION; *ELEMENTARY SCHOOL SCIENCE; *ENERGY; *LEARNING ACTIVITIES; *NATURAL RESOURCES; *SCIENCE ACTIVITIES; *ENERGY EDUCATION

ISSUE: CIJE1978

ABSTRACT: SUGGESTS MANY POSSIBLE EDUCATIONAL ACTIVITIES FOR ENERGY EDUCATION UNDER THE FOLLOWING SUB-HEADINGS: MATH AND SCIENCE, FIELD TRIPS, ENERGY CONSERVATION IN THE HOME, LANGUAGE ARTS, AND SOCIAL STUDIES. (MOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE AND CHILDREN: 19: 6: 22-4

ACCESSION NUMBER: EJ180160

CLEARINGHOUSE ACCESSION NUMBER: SE521563

PUBLICATION DATE: MAR 78

TITLE: AN ENERGY LESSON AS NEAR AS YOUR WINDOW

PERSONAL AUTHOR: MUNSON, HOWARD

DESCRIPTOR: *ELEMENTARY SCHOOL SCIENCE; *ENERGY; *ENVIRONMENTAL EDUCATION; *HEATING; *SCIENCE ACTIVITIES; *TEMPERATURE; *ELEMENTARY EDUCATION; *HEAD; *SCIENCE EDUCATION; *SCIENCE EXPERIMENTS; *ENERGY EDUCATION

ISSUE: CIJE1978

ABSTRACT: AN EXPERIMENT ON THE HEAT CONDUCTIVITY OF DIFFERENT MATERIALS ARE DESCRIBED. APPLICATIONS FOR ENERGY EDUCATION IN THE ELEMENTARY CLASSROOM ARE IMPLIED. (MOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE AND CHILDREN: 19: 6: 25-6

ACCESSION NUMBER: EJ180163

CLEARINGHOUSE ACCESSION NUMBER: SE521566

PUBLICATION DATE: MAR 78

TITLE: SOLAR ENERGY BECOMES A REALITY AT THE MADEIRA SCHOOL

PERSONAL AUTHOR: MILLER, EILEEN

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *FACILITIES; *HEATING; *SCHOOL DESIGN; *SOLAR RADIATION; *PRIVATE SCHOOLS; *TECHNOLOGICAL ADVANCEMENT

ISSUE: CIJE1978

ABSTRACT: PRESENTS A BRIEF DESCRIPTION OF THE SOLAR HEATING SYSTEM THAT IS INCORPORATED INTO THE DESIGN OF A PRIVATE GIRLS SCHOOL IN GREENWAY, VIRGINIA. (MOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE AND CHILDREN: 19: 6: 34-5

ACCESSION NUMBER: EJ180164

CLEARINGHOUSE ACCESSION NUMBER: SE521567

PUBLICATION DATE: MAR 78

TITLE: GET-UP-AND GO: A SCIENCE MUSEUM'S APPROACH TO TEACHING CHILDREN ABOUT ENERGY

PERSONAL AUTHOR: BELL, LAWRENCE; CONNELLY, DOROTHY M.

DESCRIPTOR: *DEMONSTRATIONS (EDUCATIONAL); *ELEMENTARY SCHOOL SCIENCE; *ENERGY; *MUSEUMS; *SCIENCE ACTIVITIES; *ELEMENTARY EDUCATION; *ENERGY CONSERVATION; *KINETICS; *SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: DESCRIBES THE ENERGY EDUCATION PROGRAM GIVEN FOR ELEMENTARY SCHOOL GROUPS AT THE MUSEUM OF SCIENCE IN BOSTON. SEVERAL ENERGY MACHINES OR DEMONSTRATIONS ARE DESCRIBED AND THEIR USE IN THIS ENERGY EDUCATION PROGRAM IS OUTLINED. ALSO SOME OTHER SUGGESTIONS TO ILLUSTRATE THE USE, STORAGE, AND TRANSFORMATION OF ENERGY ARE PRESENTED. (MOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE AND CHILDREN: 19: 6: 36-7

ACCESSION NUMBER: EJ180187

CLEARINGHOUSE ACCESSION NUMBER: SE521632

PUBLICATION DATE: APR 78

TITLE: ENERGY AND DEVELOPMENT

PERSONAL AUTHOR: ABELSON, PHILIP M.

DESCRIPTOR: *DEVELOPING NATIONS; *ENERGY CONSERVATION; *FUELS; *RESOURCE ALLOCATIONS; *WORLD PROBLEMS; *ENERGY; *ENVIRONMENTAL EDUCATION; *FUEL CONSUMPTION; *INTERNATIONAL ORGANIZATIONS; *NATURAL RESOURCES

ISSUE: CIJE1978

ABSTRACT: DESCRIBED ARE THE PROCEEDINGS FROM A SYMPOSIUM ON ENERGY AND DEVELOPMENT IN THE AMERICAS. THE ARTICLE SUGGESTS THAT THIS CONFERENCE COULD BE A MODEL FOR THE UNITED NATIONS' CONFERENCE ON SCIENCE AND TECHNOLOGY TO BE HELD IN 1979. (MOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE: 200: 4338: 133

ACCESSION NUMBER: EJ180188

CLEARINGHOUSE ACCESSION NUMBER: SE521633

PUBLICATION DATE: APR 78

TITLE: FUEL CONSERVATION AND APPLIED RESEARCH

PERSONAL AUTHOR: BREY, JERRY; AND OTHERS

DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION; *PROGRAM DEVELOPMENT; *SCIENTIFIC RESEARCH; *TECHNOLOGICAL ADVANCEMENTS; *ENERGY; *ENVIRONMENTAL EDUCATION; *ENVIRONMENTAL RESEARCH; *FUELS; *FUTURES (OF SOCIETY)

ISSUE: CIJE1978

ABSTRACT: THE IMPORTANCE OF APPLIED RESEARCH TO THE TECHNICAL AND POLITICAL SUPPORT OF ENERGY CONSERVATION PROGRAMS IS DISCUSSED. PAST, PRESENT, AND FUTURE EXAMPLES OF APPLIED FUEL CONSERVATION RESEARCH ARE PRESENTED AND A MEANS OF INSTITUTIONALIZING THESE RESEARCH EFFORTS INTO A LONG RANGE PROGRAM IS SUGGESTED. (MOR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: SCIENCE; 200: 4338: 135-42

ACCESSION NUMBER: EJ180189

CLEARINGHOUSE ACCESSION NUMBER: SE521634

PUBLICATION DATE: APR 78

TITLE: U.S. ENERGY DEMAND: SOME LOW ENERGY FUTURES

DESCRIPTOR: *ENERGY CONSERVATION; *ENVIRONMENTAL RESEARCH;
*FUEL CONSUMPTION; *FUTURES (OF SOCIETY); *USE STUDIES;
*ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS; *NATURAL RESOURCES;
*RESOURCE ALLOCATIONS

ISSUE: CIJE1978

ABSTRACT: DESCRIBED IS A STUDY IN WHICH ENERGY DEMANDS WERE ANALYZED AND SEVERAL PLAUSIBLE FUTURE ENERGY SCENARIOS WERE DEVELOPED. THE ARTICLE ATTEMPTS TO ILLUSTRATE THE DYNAMICS OF ENERGY DEMAND AND SUPPLY IN THE UNITED STATES IN ORDER TO AID FUTURE PLANNING. (MDR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE; 200: 4338: 142-52

ACCESSION NUMBER: EJ180190

CLEARINGHOUSE ACCESSION NUMBER: SE521635

PUBLICATION DATE: APR 78

TITLE: BRAZIL: ENERGY OPTIONS AND CURRENT OUTLOOK

PERSONAL AUTHOR: GOLDENBERG, J.

DESCRIPTOR: *ENERGY CONSERVATION; *ENVIRONMENTAL RESEARCH;
*FUEL CONSUMPTION; *FUTURES (OF SOCIETY); *NATURAL RESOURCES;
*DEVELOPING NATIONS; *ENERGY; *ENVIRONMENTAL EDUCATION; *FUELS; *WORLD PROBLEMS

ISSUE: CIJE1978

ABSTRACT: BRAZIL'S ENERGY OPTIONS AND CURRENT OUTLOOK ARE EXAMINED, AND A SUMMARY OF KNOWN RESERVES OF FOSSIL AND RENEWABLE ENERGY RESOURCES IS GIVEN. SUGGESTIONS FOR AN ENERGY PROGRAM DESIGNED TO PRESERVE BRAZILIAN CULTURE ARE INCLUDED. (MDR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE; 200: 4338: 158-64

ACCESSION NUMBER: EJ180244

CLEARINGHOUSE ACCESSION NUMBER: SE521751

PUBLICATION DATE: APR 78

TITLE: NUCLEAR POWER AND NUCLEAR-WEAPONS PROLIFERATION

PERSONAL AUTHOR: MONIZ, ERNEST J.; NEFF, THOMAS L.

DESCRIPTOR: *ENERGY; *NUCLEAR PHYSICS; *NUCLEAR WARFARE;
*PHYSICS; *WORLD PROBLEMS; *ATOMIC THEORY; *SCIENCE EDUCATION;
*SCIENTIFIC ENTERPRISE; *WAR; *WORLD AFFAIRS

ISSUE: CIJE1978

ABSTRACT: DISCUSSES CONCERNS OF THE PRODUCTION OF BY-PRODUCTS SUITABLE FOR NUCLEAR WEAPON PRODUCTION FROM PLUTONIUM BREEDER NUCLEAR REACTIONS AND FUTURE URANIUM SUPPLIES. (SL)

JOURNAL CITATION: PHYSICS TODAY; 31: 4: 42-51

ACCESSION NUMBER: EJ180592

CLEARINGHOUSE ACCESSION NUMBER: U0506135

PUBLICATION DATE: MAR-APR 78

TITLE: LESS IS MORE

PERSONAL AUTHOR: MEIER, RICHARD L.; CRANE, JANET E.

DESCRIPTOR: *ARCHITECTURE; *BUILDING DESIGN; *ENERGY CONSERVATION;
*SPACE UTILIZATION; *URBAN AREAS; *DEVELOPING NATIONS;
*CITY PROBLEMS; *CONSERVATION (ENVIRONMENT); *URBAN ENVIRONMENT;
*NEW YORK (NEW YORK)

ISSUE: CIJE1978

ABSTRACT: CONCEPTS AND PRACTICES EMPLOYED IN THIRD WORLD COUNTRIES FOR CONSERVING SPACE AND ENERGY IN URBAN AREAS ARE DESCRIBED. SUGGESTIONS ARE OFFERED FOR APPLYING SOME OF THESE IDEAS TO AN APARTMENT COMPLEX ON ROOSEVELT ISLAND, NEW YORK. (GC)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SOCIETY; 15: 3: 55-63

ACCESSION NUMBER: EJ180934

CLEARINGHOUSE ACCESSION NUMBER: CE50761G

PUBLICATION DATE: MAR-APR 78

TITLE: ENERGY CRISIS VS. EXTENSION OPPORTUNITIES

PERSONAL AUTHOR: LILES, HAROLD R.

DESCRIPTOR: *EXTENSION EDUCATION; *FUELS; *LAND USE;
*PROGRAM EFFECTIVENESS; *PROPERTY ACCOUNTING; *NATURAL

RESOURCES; *EDUCATIONAL OBJECTIVES; *EDUCATIONAL NEEDS; *STATE PROGRAMS; *DEPLETED RESOURCES; *OKLAHOMA

ISSUE: CIJE1978

ABSTRACT: DISCUSSES WHAT STEPS WERE TAKEN BY THE COOPERATIVE EXTENSION SERVICE IN OKLAHOMA, AFTER THE ENERGY CRISIS BEGAN TO HELP LANDOWNERS MAKE BETTER DECISIONS REGARDING OIL AND GAS LEASES. OKLAHOMA'S EXTENSION EDUCATIONAL EFFORTS IN MINERAL RIGHTS MANAGEMENT HAVE BEEN SUCCESSFUL BECAUSE THEY MET THE NEEDS OF THE PEOPLE. (EM)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: JOURNAL OF EXTENSION; 16: 4-9

ACCESSION NUMBER: EJ181444

CLEARINGHOUSE ACCESSION NUMBER: EA509893

PUBLICATION DATE: FEB 78

TITLE: A NEW DISCIPLINE: ENERGY MANAGEMENT

PERSONAL AUTHOR: STEPHAN, ED

DESCRIPTOR: *ENERGY CONSERVATION; *CERTIFICATION;
*EXTENSION EDUCATION; *MANAGEMENT EDUCATION; *COURSE DESCRIPTIONS;
*EDUCATIONAL OBJECTIVES; *HIGHER EDUCATION;
*UNIVERSITY OF WISCONSIN

ISSUE: CIJE1978

ABSTRACT: THE UNIVERSITY OF WISCONSIN, THROUGH ITS EXTENSION DIVISION, IS OFFERING TWO ENERGY MANAGEMENT CERTIFICATION PROGRAMS. (AUTHOR/HLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 50: 6: 56-7

ACCESSION NUMBER: EJ181446

CLEARINGHOUSE ACCESSION NUMBER: EA509895

PUBLICATION DATE: FEB 78

TITLE: SAVE MONEY WITH THIS FUEL OIL SPEC

PERSONAL AUTHOR: FALLON, IRVING

DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION;
*FUELS; *PERFORMANCE SPECIFICATIONS; *PURCHASING; *HIGHER EDUCATION;
*UNIVERSITY OF CONNECTICUT

ISSUE: CIJE1978

ABSTRACT: AS PART OF AN OVERALL ENERGY MANAGEMENT PROGRAM, THE CENTRAL STEAM PLANT AT THE UNIVERSITY OF CONNECTICUT AT STORRS HAS A FUEL CONTRACT METHOD IN WHICH VENDORS BID ON A SPECIFICATION BASED ON HEATING VALUE AS OPPOSED TO JUST VOLUME. (AUTHOR/HLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 50: 6: 62

ACCESSION NUMBER: EJ181451

CLEARINGHOUSE ACCESSION NUMBER: EA509900

PUBLICATION DATE: MAR 78

TITLE: SEVENTH ANNUAL MAINTENANCE & OPERATIONS COST STUDY

PERSONAL AUTHOR: ABRAMSON, PAUL

DESCRIPTOR: *SCHOOL DISTRICT SPENDING; *OPERATING EXPENSES;
*SCHOOL MAINTENANCE; *HEATING; *SALARIES; *ELEMENTARY SECONDARY EDUCATION;
*UTILITIES; *NATIONAL SURVEYS; *SCHOOL STATISTICS

ISSUE: CIJE1978

ABSTRACT: DESPITE CONTINUALLY RISING COSTS OF FUEL AND OTHER UTILITIES, THE COST OF MAINTENANCE AND OPERATIONS IN PUBLIC SCHOOL DISTRICTS IS NOT RISING AS QUICKLY AS THE GENERAL COST OF EDUCATION. A STATE-BY-STATE COST COMPARISON IS INCLUDED. (AUTHOR/HLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 50: 7: 36-8,40

ACCESSION NUMBER: EJ181455

CLEARINGHOUSE ACCESSION NUMBER: EA509904

PUBLICATION DATE: MAR 78

TITLE: THE ENERGY AUDIT: WHAT IT CAN DO FOR YOU

PERSONAL AUTHOR: PIPER, JAMES E.

DESCRIPTOR: *ENERGY CONSERVATION; *USE STUDIES; *FUEL CONSUMPTION;
*INSTITUTIONAL RESEARCH; *ELEMENTARY SECONDARY EDUCATION;
*HIGHER EDUCATION; *UTILITIES; *EVALUATION METHODS;
*ADMINISTRATOR GUIDES; *NEEDS ASSESSMENT

ISSUE: CIJE1978

ABSTRACT: THE ENERGY AUDIT PROVIDES SCHOOL ADMINISTRATORS WITH THE INFORMATION NECESSARY TO DETERMINE WHAT THE ENERGY CONSERVATION OPTIONS ARE AND HOW TO IMPLEMENT THEM. (AUTHOR/HLF)

JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 50: 7: 58,60,62,64

ACCESSION NUMBER: EJ181460
 CLEARINGHOUSE ACCESSION NUMBER: EA509909
 PUBLICATION DATE: APR 78
 TITLE: ONE FOR THE ADMINISTRATORS
 DESCRIPTOR: *SCHOOL DISTRICTS; *ADMINISTRATIVE PERSONNEL; *OFFICES (FACILITIES); *BUILDING DESIGN; *ENERGY CONSERVATION; ELEMENTARY SECONDARY EDUCATION
 ISSUE: CIJE1978
 ABSTRACT: EARTH BEENS, A HEAVILY INSULATED ROOF, AND A NARROW BAND OF THERMAL PANE WINDOWS, SAVE ENERGY AT THE ADMINISTRATIVE HEADQUARTERS OF THE ANOKA HENNEPIN SCHOOL DISTRICT IN COON RAPIDS, A SUBURB OF MINNEAPOLIS, MINNESOTA. (AUTHOR/MLF)
 JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 50; 8; 24-5

ACCESSION NUMBER: EJ181460
 CLEARINGHOUSE ACCESSION NUMBER: EA509917
 PUBLICATION DATE: MAY 78
 TITLE: LIGHTING DESIGN--A MISSED OPPORTUNITY
 DESCRIPTOR: *ENERGY CONSERVATION; *COST EFFECTIVENESS; *LIGHTING DESIGN; *LIBRARY PLANNING; HIGHER EDUCATION; UNIVERSITY LIBRARIES; UTILITIES; *UNIVERSITY OF CONNECTICUT
 ISSUE: CIJE1978
 ABSTRACT: HOW THE UNIVERSITY OF CONNECTICUT COULD HAVE SAVED \$1.5 MILLION ON ELECTRICITY IN TEN YEARS BY CHANGING A LIBRARY DESIGN DATING FROM 1971. (AUTHOR)
 JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 50; 9; 40-2

ACCESSION NUMBER: EJ181471
 CLEARINGHOUSE ACCESSION NUMBER: EA509920
 PUBLICATION DATE: MAY 78
 TITLE: SCHOOL DISTRICT 'STEPS BACK INTO FUTURE' WITH WOOD FUEL
 DESCRIPTOR: *ENERGY CONSERVATION; *HEATING; *FUELS; *BUILDING INNOVATION; ELEMENTARY SECONDARY EDUCATION
 ISSUE: CIJE1978
 ABSTRACT: A HIGH SCHOOL/ELEMENTARY SCHOOL COMPLEX IN GRAND MARAIS, MINNESOTA, SWITCHED FROM AN OIL BURNING UNIT AS THE SOURCE OF STEAM HEAT TO A NEW PLANT USING WASTE WOOD PRODUCTS. THIS PROVIDES THE SCHOOL WITH A LOCALLY PRODUCED HEAT SOURCE. (AUTHOR/MLF)
 JOURNAL CITATION: AMERICAN SCHOOL AND UNIVERSITY; 50; 9; 52-3

ACCESSION NUMBER: EJ181922
 CLEARINGHOUSE ACCESSION NUMBER: IN505485
 PUBLICATION DATE: MAR 78
 TITLE: TECHNOLOGY VERSUS ENERGY COSTS
 PERSONAL AUTHOR: HAWKINS-SAGER, SUSAN
 DESCRIPTOR: *ENERGY CONSERVATION; *EMERGENCY PROGRAMS; *MASS MEDIA; *ELEMENTARY SECONDARY EDUCATION; FUTURES (OF SOCIETY); ENERGY FUEL CONSUMPTION; EDUCATIONAL TECHNOLOGY
 ISSUE: CIJE1978
 ABSTRACT: THE ENERGY CRISES MAY ULTIMATELY PROVIDE A PERSUASIVE RATIONALE FOR EDUCATIONAL TECHNOLOGY. (AUTHOR/STS)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI
 JOURNAL CITATION: AUDIOVISUAL INSTRUCTION; 23; 3; 12-3

ACCESSION NUMBER: EJ182144
 CLEARINGHOUSE ACCESSION NUMBER: SE521673
 PUBLICATION DATE: APR 78
 TITLE: SOLAR POWER: ENERGY OF THE FUTURE?
 PERSONAL AUTHOR: GREGORY, D. L.
 DESCRIPTOR: *AEROSPACE TECHNOLOGY; *ENERGY; *ENVIRONMENTAL EDUCATION; *SOLAR RADIATION; AEROSPACE EDUCATION; POLLUTION; SCIENCE EDUCATION; SPACE SCIENCES; TECHNOLOGICAL ADVANCEMENT
 ISSUE: CIJE1978
 ABSTRACT: THE POTENTIAL OF SOLAR POWER SATELLITES AS A FUTURE MEANS OF SUPPLYING ENERGY IS DISCUSSED ALONG WITH THE ENVIRONMENTAL REASONS FOR USING THESE SATELLITES. (MOR)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI
 JOURNAL CITATION: JOURNAL OF AEROSPACE EDUCATION; 5; 3; 8-10

ACCESSION NUMBER: EJ182148
 CLEARINGHOUSE ACCESSION NUMBER: SE521701
 PUBLICATION DATE: APR 78
 TITLE: BEAMING-IN ON STUDENT-MADE SOLAR TECHNOLOGY
 PERSONAL AUTHOR: CHIOTELIS, CHARLES L.
 DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *SCIENCE ACTIVITIES; *SCIENCE EDUCATION; *SOLAR RADIATION; *STUDENT DEVELOPMENT; MATERIALS; CONTROLLED ENVIRONMENT; ENERGY CONSERVATION; NATURAL RESOURCES; SECONDARY EDUCATION
 ISSUE: CIJE1978
 ABSTRACT: COMPLETION OF A UNIT ON HEAT ENERGY MOTIVATED STUDENTS TO DEVISE THEIR OWN SOLAR COLLECTORS, PARABOLIC SOLAR COOKERS, AND DESIGNS FOR A SOLAR HOME, USING THEIR SOLAR PROJECTS, THE STUDENTS TESTS HYPOTHESES THEY MIGHT HAVE HAD CONCERNING HEATING CAPACITIES, INSULATION VALUES, OR ENERGY CONVERSIONS. (MA)
 JOURNAL CITATION: SCIENCE TEACHER; 45; 4; 20-1

ACCESSION NUMBER: EJ182149
 CLEARINGHOUSE ACCESSION NUMBER: SE521702
 PUBLICATION DATE: APR 78
 TITLE: SOLAR HOMES: THE SHAPE OF THINGS TO COME?
 PERSONAL AUTHOR: KOVACS, PATRICIA A.; RASON, WILLIAM W.
 DESCRIPTOR: *ENVIRONMENTAL EDUCATION; *INTERDISCIPLINARY APPROACH; *SCIENCE ACTIVITIES; *SCIENCE EDUCATION; *SOLAR RADIATION; CONTROLLED ENVIRONMENT; ENERGY CONSERVATION; WOODS; NATURAL RESOURCES; SECONDARY EDUCATION
 ISSUE: CIJE1978
 ABSTRACT: STUDENTS SPENT TWO MONTHS DESIGNING AND BUILDING MODEL SOLAR HOMES. DURING THIS TIME, THEY LEARNED ABOUT SCIENCE, GEOLOGY, ARCHITECTURE, LANDSCAPING, AND INTERIOR DECORATING. THIS ARTICLE DESCRIBES AND ILLUSTRATES THEIR WORK. (MA)
 JOURNAL CITATION: SCIENCE TEACHER; 45; 4; 22-3

ACCESSION NUMBER: EJ182150
 CLEARINGHOUSE ACCESSION NUMBER: SE521703
 PUBLICATION DATE: APR 78
 TITLE: WINTERING WITH SOLAR: ONE SCHOOL'S RESPONSE TO SCARCE ENERGY
 PERSONAL AUTHOR: SHORE, RON
 DESCRIPTOR: *ENERGY CONSERVATION; *ENVIRONMENTAL EDUCATION; *GREENHOUSES; *SCIENCE EDUCATION; *SECONDARY EDUCATION; *SOLAR RADIATION; CONTROLLED ENVIRONMENT; MATHEMATICS; EDUCATION; NATURAL RESOURCES; TECHNOLOGY
 ISSUE: CIJE1978
 ABSTRACT: THROUGH A COURSE IN ENERGY CONSERVATION AND DOMESTIC SOLAR ENERGY TECHNOLOGY, STUDENTS EVALUATED THE THERMAL PERFORMANCE OF EXISTING CAMPUS STRUCTURES AND MADE SUGGESTIONS FOR IMPROVEMENTS IN THERMAL EFFICIENCY. BESIDES MAKING SOME OF THESE IMPROVEMENTS, THE STUDENTS ALSO DESIGNED, BUILT, AND OPERATED A SOLAR GREENHOUSE. (MA)
 JOURNAL CITATION: SCIENCE TEACHER; 45; 4; 23-4

ACCESSION NUMBER: EJ182182
 CLEARINGHOUSE ACCESSION NUMBER: SE521779
 PUBLICATION DATE: APR 78
 TITLE: CATCH THE SUN
 PERSONAL AUTHOR: RALOFF, JANET
 DESCRIPTOR: *ENERGY; *PHYSICS; *RADIATION; *SCIENTIFIC RESEARCH; *SOLAR RADIATION; FUEL CONSUMPTION; OPTICS; RESEARCH; SCIENCE EDUCATION; SCIENTIFIC ENTERPRISE
 ISSUE: CIJE1978
 ABSTRACT: REVIEWS CURRENT RESEARCH BEING CONDUCTED TO HARNESS THE ENERGY OF THE SUN. (SL)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI
 JOURNAL CITATION: SCIENCE NEWS; 113; 16; 248-51,267

ACCESSION NUMBER: EJ182184
 CLEARINGHOUSE ACCESSION NUMBER: SE521781
 PUBLICATION DATE: APR 78
 TITLE: SERI COMES OF AGE
 PERSONAL AUTHOR: FRAZIER, KENDRICK
 DESCRIPTOR: *ENERGY; *SCIENCE INSTITUTES; *SCIENTIFIC RESEARCH; *SOLAR RADIATION; FEDERAL GOVERNMENT; RADIATION; RESEARCH; SCIENCE EDUCATION; *SOLAR ENERGY RESEARCH INSTITUTE
 ISSUE: CIJE1978
 ABSTRACT: DESCRIBES THE SOLAR ENERGY RESEARCH INSTITUTE (SERI) ITS GROWTH, MISSION, AND PROJECTED FUTURE ROLE. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: SCIENCE NEWS; 113; 16; 255

ACCESSION NUMBER: EJ182249
CLEARINGHOUSE ACCESSION NUMBER: SE521937
PUBLICATION DATE: APR 78
TITLE: THE SOLAR TRANSITION
PERSONAL AUTHOR: COMMONER, BARRY

DESCRIPTOR: *ECONOMICS; *ENERGY; *FEDERAL GOVERNMENT;
*GOVERNMENT ROLE; *SOLAR RADIATION; ECONOMIC FACTORS; ENERGY
CONSERVATION; FUTURES (OF SOCIETY); NATURAL RESOURCES

ISSUE: CIJE1978

ABSTRACT: A DISCUSSION OF THE ROLE OF GOVERNMENT AND THE
ECONOMIC FACTORS INVOLVED IN THE TRANSITION TO THE USE OF
SOLAR ENERGY IS PRESENTED. (MR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: ENVIRONMENT; 20; 3; 6-10,13

ACCESSION NUMBER: EJ182250
CLEARINGHOUSE ACCESSION NUMBER: SE521938
PUBLICATION DATE: APR 78
TITLE: AN ECONOMIC COMPARISON OF THREE TECHNOLOGIES:
PHOTOVOLTAICS, NUCLEAR POWER, CO-GENERATING ENGINES
PERSONAL AUTHOR: SCOTT, ROBERT

DESCRIPTOR: *COST; *EFFECTIVENESS; *ECONOMIC FACTORS;
*ELECTRICAL SYSTEMS; *ENERGY CONSERVATION; *FUEL
CONSUMPTION; *CONSERVATION (ENVIRONMENT); *FUELS; NATURAL
RESOURCES; TECHNOLOGICAL ADVANCEMENT; *POWER PLANTS; NUCLEAR
ENERGY

ISSUE: CIJE1978

ABSTRACT: A DISCUSSION OF THREE POWER GENERATING SYSTEMS IS
PRESENTED. THE DISCUSSION FOCUSES ON THE ECONOMIC
CHARACTERISTICS OF EACH SYSTEM. A SUMMARY TABLE IS INCLUDED.
(MR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: ENVIRONMENT; 20; 3; 11-5

ACCESSION NUMBER: EJ182252
CLEARINGHOUSE ACCESSION NUMBER: SE521940
PUBLICATION DATE: APR 78
TITLE: POWER PLANT PERFORMANCE
PERSONAL AUTHOR: FOWLER, JOHN M.; AND OTHERS

DESCRIPTOR: *ELECTRICITY; *FUELS; ENERGY; ENERGY
CONSERVATION; FUEL CONSUMPTION; NATURAL RESOURCES; *COAL;
*POWER PLANTS

ISSUE: CIJE1978

ABSTRACT: THIS ARTICLE ATTEMPTS TO CLARIFY POWER PLANT
PERFORMANCE TO THE NON-SPECIALISTS BY PRESENTING DATA ON
NUCLEAR AND COAL POWER PLANTS. (MR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: ENVIRONMENT; 20; 3; 25-32

ACCESSION NUMBER: EJ182292
CLEARINGHOUSE ACCESSION NUMBER: SE522155
PUBLICATION DATE: MAY 78
TITLE: SHADOWS AND CHANGES: A STUDY OF SOLAR POSITION
PERSONAL AUTHOR: LEYDEN, MICHAEL B.

DESCRIPTOR: *EARTH SCIENCE; *ELEMENTARY SCHOOL STUDENTS;
*INSTRUCTION; *SCIENCE ACTIVITIES; *SOLAR RADIATION;
ELEMENTARY SCHOOL SCIENCE; ELEMENTARY SECONDARY EDUCATION;
PHYSICAL SCIENCES; SCIENCE EDUCATION; SECONDARY SCHOOL
SCIENCE; TIME

ISSUE: CIJE1978

ABSTRACT: DESCRIBED IS THE USE OF SHADOWS IN INTRODUCING
ELEMENTARY SCHOOL STUDENTS TO SUCH TOPICS AS MOVEMENT OF THE
EARTH, TIME, COMPASS POINTS. THESE IDEAS MAY BE USED AT THE
SECONDARY LEVEL, ALSO. (MR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: SCIENCE AND CHILDREN; 15; 8; 7-10

ACCESSION NUMBER: EJ182303
CLEARINGHOUSE ACCESSION NUMBER: SE522182
PUBLICATION DATE: 78
TITLE: ENERGY AND LABOR: JOB IMPLICATIONS OF ENERGY
DEVELOPMENT OR SHORTAGE
PERSONAL AUTHOR: COMMONER, BARRY

DESCRIPTOR: *ECONOMICS; *EMPLOYMENT; *ENERGY; *ENVIRONMENT;
*LABOR UNIONS; LABOR ECONOMICS; POLICY; UNEMPLOYMENT

ISSUE: CIJE1978

ABSTRACT: THE MAIN POINT OF THIS ESSAY IS THAT THE ONLY
SOUND ENERGY AND ENVIRONMENTAL POLICY IS ONE THAT SERVES THE
NEEDS OF LABOR. THE ROLE OF LABOR IN THE CONFLICTS BETWEEN
ENERGY, ENVIRONMENT, AND EMPLOYMENT IS DISCUSSED. (MR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: ALTERNATIVES; 7; 3; 4-13,16

ACCESSION NUMBER: EJ182600
CLEARINGHOUSE ACCESSION NUMBER: AA528218
PUBLICATION DATE: FEB 78
TITLE: 1977 MAJOR EDUCATION EVENTS
PERSONAL AUTHOR: BRODINSKY, BEN

DESCRIPTOR: *EDUCATIONAL DEVELOPMENT; *HANDICAPPED
CHILDREN; *SUPREME COURT LITIGATION; *ENERGY CONSERVATION;
*PARENT REACTION; *PROGRAMING (BROADCAST); CORPORAL
PUNISHMENT

ISSUE: CIJE1978

ABSTRACT: DESCRIBES THE EFFORT TO EDUCATE ALL HANDICAPPED
CHILDREN UNDER PUBLIC LAW 94-142, DISCUSSES SUPREME COURT
ACTION ON THE BAKKE CASE AND ON CORPORAL PUNISHMENT IN THE
CLASSROOM, THE STRUGGLE BY SCHOOLS TO COPE WITH THE ENERGY
CRISIS, AND SOME OTHER SIGNIFICANT EDUCATIONAL ISSUES THAT
OCCURRED IN 1977. (RK)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: NJEA REVIEW; 5; 6; 17

ACCESSION NUMBER: EJ182847
CLEARINGHOUSE ACCESSION NUMBER: AA528465
PUBLICATION DATE: APR 78
TITLE: MHD--DEVELOPING NEW TECHNOLOGY TO MEET THE ENERGY
CRISIS
PERSONAL AUTHOR: FITCH, SANDRA S.

DESCRIPTOR: *ENERGY; *TECHNOLOGICAL ADVANCEMENT;
*ELECTRICITY; *NATURAL RESOURCES; *ENERGY CONSERVATION;
*ENGINEERING TECHNOLOGY; PROGRAM DESCRIPTIONS;
*MAGNETOHYDRODYNAMICS; MHD

ISSUE: CIJE1978

ABSTRACT: MAGNETOHYDRODYNAMICS IS A TECHNOLOGY THAT COULD
UTILIZE THE NATION'S MOST ABUNDANT FOSSIL FUEL AND PRODUCE
ELECTRICAL ENERGY MORE EFFICIENTLY AND CLEANLY THAN
PRESENT-DAY TURBINES. A NATIONAL RESEARCH AND DEVELOPMENT
PROGRAM IS ONGOING IN BUTTE, MONTANA AT THE MONTANA ENERGY
AND MHD RESEARCH AND DEVELOPMENT INSTITUTE (MERDI).
(AUTHOR/RK)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: INTELLECT; 106; 2395; 399-400

ACCESSION NUMBER: EJ183121
CLEARINGHOUSE ACCESSION NUMBER: CS714568
PUBLICATION DATE: SPR 78
TITLE: PERCEIVED INFLUENCE OF THE PRESS ON ENERGY POLICY
MAKING
PERSONAL AUTHOR: LAMBETH, EDMUND B.

DESCRIPTOR: *NEWS MEDIA; *POLICY FORMATION; *ENERGY;
*FEDERAL GOVERNMENT; *ADMINISTRATOR ATTITUDES; SURVEYS;
PRESS INFLUENCE

ISSUE: CIJE1978

ABSTRACT: REPORTS ON A STUDY INDICATING THAT THE IMPACT OF
THE PRESS ON ENERGY POLICY MAKING IS, AT MOST, LOW TO
MODERATE AND THAT THE MORE POLICY MAKERS INTERACT WITH THE
PRESS THE MORE USEFUL THEY ARE LIKELY TO PERCEIVE IT. (GW)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: JOURNALISM QUARTERLY; 55; 1; 11-8,72

ACCESSION NUMBER: EJ183176
CLEARINGHOUSE ACCESSION NUMBER: EA509720
PUBLICATION DATE: APR 78
TITLE: UNDERGROUND ARCHITECTURE
PERSONAL AUTHOR: DEAN, ANDREA D.

DESCRIPTOR: *BUILDING INNOVATION; *ENERGY CONSERVATION;
*ENVIRONMENTAL INFLUENCES; *CONSERVATION (ENVIRONMENT);
CHANGE STRATEGIES; WINDOWLESS ROOMS; ILLUMINATION LEVELS;
ARCHITECTURAL RESEARCH; CONSTRUCTION COSTS; *UNDERGROUND
BUILDINGS

ISSUE: CIJE1978

ABSTRACT: PUTTING BUILDINGS UNDERGROUND CAN RESULT IN
SIGNIFICANT ENERGY SAVINGS, PREVENT ENVIRONMENTAL DAMAGE,
AND PRESERVE VALUABLE OPEN SPACE. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
JOURNAL CITATION: AIA JOURNAL: 67: 4: 34-7

ACCESSION NUMBER: EJ183177

CLEARINGHOUSE ACCESSION NUMBER: E-509721

PUBLICATION DATE: APR 78

TITLE: A SCHOOL INSERTED INTO A HILL

DESCRIPTOR: *BUILDING INNOVATION; *ENERGY CONSERVATION;
*SOLAR RADIATION; *HEAT RECOVERY; ELEMENTARY EDUCATION;
*UNDERGROUND BUILDINGS

ISSUE: CIJE1978

ABSTRACT: TERRASEY IS A HILL WITH A SCHOOL INSIDE, LOCATED IN RESTON, VIRGINIA. A SOLAR COLLECTOR, HEAT RECLAMATION SYSTEM, AND THE EARTH COVER SAVE ENERGY. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AIA JOURNAL: 67: 4: 44-5

ACCESSION NUMBER: EJ183178

CLEARINGHOUSE ACCESSION NUMBER: EA509722

PUBLICATION DATE: APR 78

TITLE: EVALUATION: BRIGHT BOOKSTORE CUT INTO THE EARTH

DESCRIPTOR: *COLLEGE STORES; *BUILDING INNOVATION; *ENERGY CONSERVATION; HIGHER EDUCATION; ILLUMINATION LEVELS;
BUILDING DESIGN; *UNDERGROUND BUILDINGS; *UNIVERSITY OF MINNESOTA

ISSUE: CIJE1978

ABSTRACT: BUILT TO PRESERVE OPEN SPACE AND VIEWS OF TWO HISTORIC BUILDINGS, ALL BUT 5 PERCENT OF WILLIAMSON HALL, AT THE UNIVERSITY OF MINNESOTA, IS UNDERGROUND. BECAUSE OF ITS HEAT RETENTION CHARACTERISTICS, HEATING IS UNNECESSARY UNTIL THE TEMPERATURE FALLS BELOW -20 DEGREES FAHRENHEIT. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: AIA JOURNAL: 67: 4: 46-51

ACCESSION NUMBER: EJ183225

CLEARINGHOUSE ACCESSION NUMBER: EA510039

PUBLICATION DATE: JUN 78

TITLE: "SAVING SCHOOLHOUSE ENERGY" PROJECT WORKS TO EASE THE FUEL PINCH

PERSONAL AUTHOR: HANSEN, SHIRLEY

DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION; *COST EFFECTIVENESS; *SCHOOL IMPROVEMENT; *LIGHTING DESIGN

ISSUE: CIJE1978

ABSTRACT: DESCRIBES A TEN-SCHOOL EXPERIMENT TO IDENTIFY THE MOST ENERGY-CONSERVING OPPORTUNITIES AND TO DEMONSTRATE THEIR ECONOMIC FEASIBILITY. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS: 44: 6: 176

ACCESSION NUMBER: EJ183228

CLEARINGHOUSE ACCESSION NUMBER: EA510042

PUBLICATION DATE: JUN 78

TITLE: HINSDALE JUNIOR HIGH--A THREE-LEVEL BUILDING TUNED TO ENVIRONMENT

PERSONAL AUTHOR: ERNST, LEONARD

DESCRIPTOR: *SCHOOL DESIGN; *FLEXIBLE FACILITIES; *SCHOOL PLANNING; *ENERGY CONSERVATION; JUNIOR HIGH SCHOOLS;
*ILLINOIS (HINSDALE)

ISSUE: CIJE1978

ABSTRACT: PLANNING DETAILS OF A SCHOOL DESIGNED TO CONSERVE ENERGY WITH FLEXIBILITY BUILT IN FOR FUTURE EXPANSION. (MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS: 44: 6: 183-5,187

ACCESSION NUMBER: EJ183229

CLEARINGHOUSE ACCESSION NUMBER: EA510043

PUBLICATION DATE: JUN 78

TITLE: COST/VALUE APPROACH TO INSULATION PRODUCES SAVINGS AT SIBLEY SCHOOL

DESCRIPTOR: *ENERGY CONSERVATION; *COST EFFECTIVENESS;
*BUILDING MATERIALS; *SCHOOL IMPROVEMENT; SCHOOL EXPANSION;
ELEMENTARY EDUCATION; FUEL CONSUMPTION; HEATING; *MINNESOTA (NORTHFIELD)

ISSUE: CIJE1978

ABSTRACT: AN ENERGY SAVINGS STUDY REVEALED THAT ADDING INSULATION TO AN EXISTING BUILDING AND REDUCING VENTILATION

LOADS WOULD ENABLE THE SCHOOL TO HEAT BOTH THE EXISTING BUILDING AND THE ADDITION WITH EXISTING BOILER EQUIPMENT. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCHOOL BUSINESS AFFAIRS: 44: 6: 188-9

ACCESSION NUMBER: EJ183284

CLEARINGHOUSE ACCESSION NUMBER: EA510098

PUBLICATION DATE: JUL 78

TITLE: AURORA AURARIA: AURARIA LEARNING RESOURCES CENTER, DENVER, CO

DESCRIPTOR: *MODULAR BUILDING DESIGN; *ENERGY CONSERVATION;
*ARCHITECTURAL CHARACTER; *INSTRUCTIONAL MATERIALS CENTERS;
HIGHER EDUCATION; LIGHTING DESIGN; *AURARIA HIGHER EDUCATION CENTER

ISSUE: CIJE1978

ABSTRACT: THE NEW LEARNING RESOURCES CENTER TAKES ADVANTAGE OF THE SUN AS A HEAT AND LIGHT SOURCE WHEN NEEDED, BUT KEEPS IT OUT WHEN NOT NEEDED. (AUTHOR/MLF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: PROGRESSIVE ARCHITECTURE: 59: 7: 66-7

ACCESSION NUMBER: EJ183644

CLEARINGHOUSE ACCESSION NUMBER: HE510162

PUBLICATION DATE: SPR 78

TITLE: EDISON ELECTRIC, EXXON PUSH NUCLEAR POWER IN NATION'S CLASSROOMS

PERSONAL AUTHOR: FELDMAN, DEDE

DESCRIPTOR: *ENERGY; *CLASSROOM MATERIALS; *EDUCATIONAL GAMES; *COMICS (PUBLICATIONS); *SCHOOL INDUSTRY RELATIONSHIP; ENVIRONMENTAL EDUCATION; ROLE PLAYING;
ELEMENTARY SECONDARY EDUCATION; INDUSTRY; *NUCLEAR ENERGY;
EDISON ELECTRIC INSTITUTE; EXXON CORPORATION; NEW MEXICO;
MARYLAND (MONTGOMERY COUNTY)

ISSUE: CIJE1978

ABSTRACT: PRO-NUCLEAR POWER "EDUCATIONAL MATERIALS" DESIGNED OR PROMOTED BY ENERGY AND UTILITY COMPANIES LACK OBJECTIVITY ABOUT ALTERNATIVE ENERGY RESOURCES. A FREE COMIC BOOK DISTRIBUTED TO PUBLIC SCHOOLS IN NEW MEXICO AND A SIMULATION GAME SUPPLIED TO MARYLAND PUBLIC SCHOOLS AT THE EXPENSE OF UTILITY CUSTOMERS ARE DESCRIBED. (SW)

JOURNAL CITATION: EDCENTRIC: 42: 4-6

ACCESSION NUMBER: EJ184512

CLEARINGHOUSE ACCESSION NUMBER: CE507773

PUBLICATION DATE: MAY-JUN 78

TITLE: ENERGY EDUCATION: TEACHING FOR THE FUTURE

PERSONAL AUTHOR: GIERKE, C. DAVID

DESCRIPTOR: *ENERGY CONSERVATION; *CHANGING ATTITUDES;
*INDUSTRIAL ARTS; CONSERVATION (ENVIRONMENT); CURRICULUM;
POWER MECHANICS; INDUSTRIAL EDUCATION; SENIOR HIGH SCHOOLS;
*ENERGY TECHNOLOGY; ENERGY SOURCES

ISSUE: CIJE1978

ABSTRACT: A MAJOR CHALLENGE TO EDUCATION FOR THE FUTURE INVOLVES ENERGY ATTITUDE MODIFICATION, AND INDUSTRIAL ARTS IS BEST PREPARED TO INSTITUTE ENERGY EDUCATION, SAYS THE AUTHOR. HE OUTLINES THE ENERGY TECHNOLOGY CURRICULUM AT EAST SENIOR HIGH SCHOOL, WEST SENECA, NEW YORK, AND INCLUDES PHOTOGRAPHS FROM THE SOLAR AND WIND POWER COURSE. (MF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: MAN/SOCIETY/TECHNOLOGY: 37: 8: 6-9

ACCESSION NUMBER: EJ184515

CLEARINGHOUSE ACCESSION NUMBER: CE507776

PUBLICATION DATE: MAY-JUN 78

TITLE: ENERGY RESEARCH MOTIVATES STUDENTS

PERSONAL AUTHOR: REED, STARLING C.

DESCRIPTOR: *SOLAR RADIATION; *ENERGY CONSERVATION;
*STUDENT PROJECTS; RESEARCH PROJECTS; ENGINEERING DRAWING;
ARCHITECTURAL DRAFTING; MODELS; INDUSTRIAL ARTS; JUNIOR HIGH SCHOOLS; INDUSTRIAL EDUCATION

ISSUE: CIJE1978

ABSTRACT: A NEW AWARENESS OF THE NEED TO CONSERVE ENERGY AND INTEREST IN SOLAR ENERGY LED TO RESEARCH AND DEVELOPMENT PROJECTS BY DRAFTING STUDENTS AT HORACE MANN JUNIOR HIGH SCHOOL, CHARLESTON, WEST VIRGINIA. THE ARTICLE DESCRIBES VARIOUS PROJECTS DESIGN AND INCLUDES PHOTOGRAPHS OF SOME OF THE MODELS. (MF)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: MAN/SOCIETY/TECHNOLOGY: 37: 8: 16N-16O

ACCESSION NUMBER: EJ184516
 CLEARINGHOUSE ACCESSION NUMBER: CE507777
 PUBLICATION DATE: MAY-JUN 78
 TITLE: DEMONSTRATION PREFAB SOLAR HEATED VACATION HOME
 PERSONAL AUTHOR: ARIOLA, FRANK; WALENCIK, VINCENT J.
 DESCRIPTOR: *HOUSING; *PREFABRICATION; *CONSTRUCTION (PROCESS); *SOLAR RADIATION; *STUDENT PROJECTS; *MODELS; *HEATING; *INDUSTRIAL ARTS; *SECONDARY EDUCATION; *INDUSTRIAL EDUCATION
 ISSUE: CIJE1978
 ABSTRACT: TO UPDATE A TRADITIONAL CONSTRUCTION SHOP PROGRAM, STUDENTS AT PASSAIC VALLEY HIGH SCHOOL, NEW JERSEY, DEVELOPED A MOCK-UP MODEL OF A SOLAR-HEATED A-FRAME VACATION HOUSE USING PREFAB CONSTRUCTION. THE ARTICLE DESCRIBES THE PROJECT AND ILLUSTRATES IT WITH PHOTOGRAPHS OF THE MODEL AND A DRAWING OF THE SOLAR COLLECTOR. (MF)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: MAN/SOCIETY/TECHNOLOGY; 37; 8; 18-21

ACCESSION NUMBER: EJ184524
 CLEARINGHOUSE ACCESSION NUMBER: CE507785
 PUBLICATION DATE: MAY 78
 TITLE: CHANGING OUR ENERGY BEHAVIOR
 PERSONAL AUTHOR: HOGAN, M. JANICE
 DESCRIPTOR: *ENERGY CONSERVATION; *FUEL CONSUMPTION; *FAMILY (SOCIOLOGICAL UNIT); *DECISION MAKING; *LIFE STYLE; *ENERGY; *CONSUMER EDUCATION; *HOME ECONOMICS; *FAMILY INCOME; *FAMILY RESOURCES
 ISSUE: CIJE1978
 ABSTRACT: THREE CASE STUDIES INVOLVING A HIGH, MEDIUM, AND LOW-ENERGY FAMILY ARE PRESENTED TO ILLUSTRATE THE RELATIONSHIP AMONG FAMILY LIFESTYLES, DECISION MAKING, AND ENERGY CONSUMPTION PRACTICES. THE AUTHOR DISCUSSES WAYS THE FAMILY CAN CONSERVE IN BOTH DIRECT AND INDIRECT ENERGY CONSUMPTION AND HOW HOME ECONOMISTS ARE HELPING FAMILIES ADOPT ENERGY-SAVING HABITS. (BM)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: JOURNAL OF HOME ECONOMICS; 70; 3; 18-21

ACCESSION NUMBER: EJ184525
 CLEARINGHOUSE ACCESSION NUMBER: CE507786
 PUBLICATION DATE: MAY 78
 TITLE: THE TRANSITION TO A POST-PETROLEUM WORLD
 PERSONAL AUTHOR: HAYES, DENIS
 DESCRIPTOR: *ENERGY; *NATURAL RESOURCES; *PROBLEMS; *ENERGY CONSERVATION; *SOLAR RADIATION; *FUEL CONSUMPTION; *POLLUTION; *HEAT; *FINANCIAL PROBLEMS; *POLITICAL INFLUENCES
 ISSUE: CIJE1978
 ABSTRACT: AFTER A DESCRIPTION OF THE CURRENT CONSTRAINTS ON ENERGY GROWTH, THE AUTHOR CONCLUDES THAT SOLAR ENERGY IS BY FAR THE MOST ATTRACTIVE ENERGY SOURCE. THE CONSTRAINTS DESCRIBED FALL INTO THE FOLLOWING CATEGORIES: HEAT LIMITS, POLLUTION, MATERIAL CONSTRAINTS, FINANCIAL CONSTRAINTS, AND POLITICAL LIMITS. (BM)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: JOURNAL OF HOME ECONOMICS; 70; 3; 22-5

ACCESSION NUMBER: EJ184526
 CLEARINGHOUSE ACCESSION NUMBER: CE507787
 PUBLICATION DATE: MAY 78
 TITLE: STRATEGIES FOR ENERGY CONSERVATION
 PERSONAL AUTHOR: RUDD, NANCY M.; LONGSTRETH, MOLLY
 DESCRIPTOR: *ENERGY CONSERVATION; *CONSUMER EDUCATION; *ECONOMIC CHANGE; *TAXES; *RESOURCE ALLOCATIONS; *CHANGE STRATEGIES; *CONSERVATION EDUCATION; *INCENTIVE SYSTEMS; *TECHNOLOGICAL ADVANCEMENT
 ISSUE: CIJE1978
 ABSTRACT: FOCUSING ON CONSERVATION IN THE RESIDENTIAL AREA, THE AUTHOR DESCRIBES FIVE WAYS IN WHICH CONSERVATION CAN BE ENCOURAGED OR ENFORCED: (1) HIGHER PRICES; CHANGED PRICING STRUCTURES, AND/OR TAXES ON ENERGY TO DISCOURAGE USE; (2) CONSUMER EDUCATION; (3) TAX INCENTIVES AND SUBSIDIES TO PROMOTE INSTALLATION OF ENERGY-SAVING EQUIPMENT; (4) RATIONING; AND (5) TECHNOLOGICAL CHANGES TO MINIMIZE ENERGY USE. (BM)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: JOURNAL OF HOME ECONOMICS; 70; 3; 40-43

ACCESSION NUMBER: EJ185213
 CLEARINGHOUSE ACCESSION NUMBER: JC501662
 PUBLICATION DATE: MAY 78

TITLE: THE COMMUNITY COLLEGE IN THE FEDERAL DECISION-MAKING PROCESS
 PERSONAL AUTHOR: MONETTA, DOMINIC J.
 DESCRIPTOR: *JUNIOR COLLEGES; *WORKSHOPS; *ENERGY; *GOVERNMENT SCHOOL RELATIONSHIP; *FEDERAL GOVERNMENT; *COMMUNITY COLLEGES; *PLANNING; *DECISION MAKING; *COMMUNITY INVOLVEMENT; *COMMUNITY EDUCATION
 ISSUE: CIJE1978
 ABSTRACT: DESCRIBES INTERACTIVE PLANNING WORKSHOPS SPONSORED BY THE DEPARTMENT OF ENERGY HOSTED BY COMMUNITY COLLEGES WHICH SELECT COMMUNITY LEADERS TO REVIEW AND COMMENT ON PLANS AND PROGRAMS FOR ENERGY CONSERVATION. (TP)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: COMMUNITY AND JUNIOR COLLEGE JOURNAL; 48; 8; 39-41

ACCESSION NUMBER: EJ185396
 CLEARINGHOUSE ACCESSION NUMBER: SE520800
 PUBLICATION DATE: JAN 78
 TITLE: COAL
 PERSONAL AUTHOR: FRIEDMAN, S. A.
 DESCRIPTOR: *EARTH SCIENCE; *FUELS; *GEOLOGY; *NATURAL RESOURCES; *STATE OF THE ART REVIEWS; *SCIENCES; *TECHNOLOGICAL ADVANCEMENT; *COAL
 ISSUE: CIJE1978
 ABSTRACT: REVIEWS COAL-GEOLOGY PROJECTS BEING DONE BY GOVERNMENT AGENCIES, REPORTS PRODUCTION AND EXPLORATION ACTIVITIES THROUGHOUT THE UNITED STATES. (MA)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: GEOTIMES; 23; 1; 20-1

ACCESSION NUMBER: EJ185401
 CLEARINGHOUSE ACCESSION NUMBER: SE520805
 PUBLICATION DATE: JAN 78
 TITLE: EXPLORATION GEOPHYSICS
 PERSONAL AUTHOR: SAVIT, CARL H.
 DESCRIPTOR: *FUELS; *GEOPHYSICS; *SEISMOLOGY; *STATE OF THE ART REVIEWS; *EARTH SCIENCE; *ENVIRONMENTAL INFLUENCES; *GEOLOGY; *NATURAL RESOURCES; *TECHNOLOGICAL ADVANCEMENT
 ISSUE: CIJE1978
 ABSTRACT: EXPANSION OF ACTIVITY AND CONFIRMATION OF NEW TECHNOLOGICAL DIRECTIONS CHARACTERIZED SEVERAL FIELDS OF EXPLORATION GEOPHYSICS IN 1977. ADVANCES IN SEISMIC-REFLECTION EXPLORATION HAVE BEEN ESPECIALLY IMPORTANT. (AUTHOR/MA)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: GEOTIMES; 23; 1; 26

ACCESSION NUMBER: EJ185405
 CLEARINGHOUSE ACCESSION NUMBER: SE520809
 PUBLICATION DATE: JAN 78
 TITLE: HYDROLOGY
 PERSONAL AUTHOR: SHARP, JOHN M., JR.
 DESCRIPTOR: *EARTH SCIENCE; *GEOLOGY; *SCIENTIFIC RESEARCH; *STATE OF THE ART REVIEWS; *WATER RESOURCES; *NATURAL RESOURCES; *HYDROLOGY
 ISSUE: CIJE1978
 ABSTRACT: THE PAST YEAR SAW A RE-EMPHASIS ON THE PRACTICAL ASPECTS OF HYDROLOGY DUE TO REGIONAL DROUGHT PATTERNS, URBAN FLOODING, AND AGRICULTURAL AND ENERGY DEMANDS ON WATER RESOURCES. HIGHLIGHTS OF HYDROLOGIC SYMPOSIA, PUBLICATIONS, AND EVENTS ARE INCLUDED. (MA)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI
 JOURNAL CITATION: GEOTIMES; 23; 1; 30-1

ACCESSION NUMBER: EJ185410
 CLEARINGHOUSE ACCESSION NUMBER: SE520814
 PUBLICATION DATE: JAN 78
 TITLE: OIL AND GAS
 PERSONAL AUTHOR: MEYERHOFF, ARTHUR A.
 DESCRIPTOR: *ENERGY; *FUELS; *GEOLOGY; *STATE OF THE ART REVIEWS; *EARTH SCIENCE; *GOVERNMENT ROLE; *INDUSTRY; *NATURAL RESOURCES; *TECHNOLOGY; *PETROLEUM
 ISSUE: CIJE1978
 ABSTRACT: REVIEWS U.S. ENERGY POLICIES AND PRODUCTION WITH RESPECT TO OIL AND GAS RESOURCES. EXPLORATION AREAS IN THE U.S. AND THROUGHOUT THE WORLD ARE DESCRIBED IN TERMS OF PRODUCTION AND TECHNOLOGY. (MA)
 AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: GEOTIMES; 23; 1: 35-6

ACCESSION NUMBER: EJ185416

CLEARINGHOUSE ACCESSION NUMBER: SE520820

PUBLICATION DATE: JAN 78

TITLE: POLITICAL VIEW

PERSONAL AUTHOR: BLAU, PETER E.

DESCRIPTOR: *ADMINISTRATIVE POLICY; *EARTH SCIENCE; *ENERGY; *GOVERNMENT ROLE; *SCIENCES; *FUELS; GEOLOGY; LEGISLATION; NATURAL RESOURCES; STATE OF THE ART REVIEWS

ISSUE: CIJE1978

ABSTRACT: REVIEWS THE CARTER ADMINISTRATION'S REORGANIZATION WITH THE FORMATION OF THE DEPARTMENT OF ENERGY. ALSO DISCUSSES LEGISLATION PROPOSALS OVER THE PAST YEAR, INCLUDING THE NATIONAL ENERGY ACT. (MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: GEOTIMES; 23; 1: 42-3

ACCESSION NUMBER: EJ185420

CLEARINGHOUSE ACCESSION NUMBER: SE520824

PUBLICATION DATE: JAN 78

TITLE: URANIUM AND THORIUM

PERSONAL AUTHOR: FINCH, WARREN I.

DESCRIPTOR: *EARTH SCIENCE; *ENERGY; *FUELS; *NUCLEAR WARFARE; *POLICY FORMATION; DISARMAMENT; GEOLOGY; GOVERNMENT ROLE; NATURAL RESOURCES; STATE OF THE ART REVIEWS; *URANIUM

ISSUE: CIJE1978

ABSTRACT: THE RESULTS OF PRESIDENT CARTER'S POLICY ON NON-PROLIFERATION OF NUCLEAR WEAPONS ARE EXPECTED TO SLOW THE GROWTH RATE IN ENERGY CONSUMPTION, PUT THE DEVELOPMENT OF THE REEDED REACTOR IN QUESTION, HALT PLANS TO REPROCESS AND RECYCLE URANIUM AND PLUTONIUM, AND EXPAND FACILITIES TO SUPPLY ENRICHED URANIUM. (AUTHOR/MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: GEOTIMES; 23; 1: 48-9

ACCESSION NUMBER: EJ185424

CLEARINGHOUSE ACCESSION NUMBER: SE521187

PUBLICATION DATE: FEB 78

TITLE: PROCESS INNOVATION AND CHANGES IN INDUSTRIAL ENERGY USE

PERSONAL AUTHOR: BERG, CHARLES A.

DESCRIPTOR: *CHANGING ATTITUDES; *ENERGY; *ENERGY CONSERVATION; *FUEL CONSUMPTION; *NATURAL RESOURCES; *WORLD AFFAIRS; INDUSTRY; PREDICTION; TECHNOLOGY

ISSUE: CIJE1978

ABSTRACT: AMERICAN INDUSTRY IN THE 19TH CENTURY SWITCHED FROM WOOD TO COAL AS ITS PRIMARY ENERGY RESOURCE. THE HISTORY OF THIS SWITCH IS REVIEWED, ALONG WITH THE HISTORY OF PRECEDING SIMILAR TRENDS IN EUROPE AND LATER TRENDS IN THE SWITCH FROM COAL TO OIL AND GAS. (AUTHOR/MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE; 199; 4329; 608-14

ACCESSION NUMBER: EJ185425

CLEARINGHOUSE ACCESSION NUMBER: SE521188

PUBLICATION DATE: FEB 78

TITLE: INDUSTRIAL ENERGY IN TRANSITION: A PETROCHEMICAL PERSPECTIVE

PERSONAL AUTHOR: WIGHART, RONALD S.

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *FUEL CONSUMPTION; *NATURAL RESOURCES; *PETROLEUM INDUSTRY; *TECHNOLOGY; CHEMISTRY; INDUSTRY

ISSUE: CIJE1978

ABSTRACT: AN INDUSTRIAL DEVELOPMENT INVOLVES THE CONVERSION OF BIOMASS, THROUGH FERMENTATION, TO USEFUL CHEMICAL PRODUCTS AND THE GASIFICATION OF MUNICIPAL WASTES TO PRODUCE STEAM FOR ELECTRICITY GENERATION. THESE GASES MAY ALSO SERVE AS CHEMICAL FEEDSTOCKS. (AUTHOR/MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE; 199; 4329; 614-8

ACCESSION NUMBER: EJ185426

CLEARINGHOUSE ACCESSION NUMBER: SE521189

PUBLICATION DATE: FEB 78

TITLE: LIQUID FUELS FROM COAL: FROM R&D TO AN INDUSTRY

PERSONAL AUTHOR: SWABB, L. E., JR.

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *FUELS; *INDUSTRY; *NATURAL RESOURCES; *TECHNOLOGY; GOVERNMENT ROLE; PRODUCTION TECHNIQUES; RESEARCH; *COAL

ISSUE: CIJE1978

ABSTRACT: GOVERNMENT SUPPORT OF COAL LIQUEFACTION RESEARCH AND DEVELOPMENT HAS CREATED THE CONDITIONS THAT MAKE POSSIBLE THE DEVELOPMENT OF NEEDED TECHNOLOGY. WITH THE PROPER GOVERNMENT INCENTIVES, PIONEER PLANTS WILL LEAD TO LOWER COSTS, AND THIS, PLUS RISING PRICES, WILL CREATE THE CONDITIONS NECESSARY TO DEVELOP A MULTI-PLANT INDUSTRY. (AUTHOR/MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE; 199; 4329; 619-22

ACCESSION NUMBER: EJ185427

CLEARINGHOUSE ACCESSION NUMBER: SE521190

PUBLICATION DATE: FEB 78

TITLE: ENERGY AND WATER

PERSONAL AUTHOR: HARTE, JOHN; EL-GASSEIR, MOHAMED

DESCRIPTOR: *ENERGY; *FUELS; *FUTURES (OF SOCIETY); *TECHNOLOGY; *WATER RESOURCES; DEPLETED RESOURCES; ENERGY CONSERVATION; NATURAL RESOURCES

ISSUE: CIJE1978

ABSTRACT: THE WATER CONSUMPTION REQUIREMENTS FOR A VARIETY OF ENERGY OPTIONS ARE PRESENTED, AND COMPARATIVE JUDGMENTS DRAWN. ATTENTION IS FOCUSED ON PROBLEMS RESULTING FROM SYNTHETIC, GASEOUS, AND LIQUID FUEL PRODUCTION. SCENARIOS DESCRIBING POSSIBLE FUTURE LEVELS OF COAL AND ELECTRICITY USE ARE ANALYZED. THEY POINT TO THE IMPORTANCE OF WATER SUPPLY CONSTRAINTS. (AUTHOR/MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE; 199; 4329; 623-34

ACCESSION NUMBER: EJ185428

CLEARINGHOUSE ACCESSION NUMBER: SE521191

PUBLICATION DATE: FEB 78

TITLE: PHOTOVOLTAIC POWER SYSTEMS: A TOUR THROUGH THE ALTERNATIVES

PERSONAL AUTHOR: KELLY, HENRY

DESCRIPTOR: *ELECTRICITY; *ENERGY; *PHOTOCHEMICAL REACTIONS; *TECHNOLOGY; ECONOMICS; MANUFACTURING; SYSTEMS APPROACH; *POWER GENERATION

ISSUE: CIJE1978

ABSTRACT: PHOTOVOLTAIC SYSTEMS ARE EXAMINED AS POTENTIALLY MAJOR ENERGY SOURCES, ALONG WITH THE ECONOMIC FACTORS THAT WILL AFFECT THEIR FUTURE USE. CELL DESIGN, POWER EFFICIENCY, AND MANUFACTURING PROBLEMS ARE ALSO CONSIDERED. (MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE; 199; 4329; 634-43

ACCESSION NUMBER: EJ185429

CLEARINGHOUSE ACCESSION NUMBER: SE521192

PUBLICATION DATE: FEB 78

TITLE: FUELS FROM BIOMASS: INTEGRATION WITH FOOD AND MATERIALS SYSTEMS

PERSONAL AUTHOR: LIPINSKY, E. S.

DESCRIPTOR: *AGRICULTURE; *ENERGY; *FOOD; *FUELS; *NATURAL RESOURCES; *TECHNOLOGY; ENERGY CONSERVATION; POLICY FORMATION; SYSTEMS APPROACH; *BIOMASS SYSTEMS

ISSUE: CIJE1978

ABSTRACT: THE DEVELOPMENT OF FUELS FROM BIOMASS CAN LEAD NATURALLY TO DISPERSED FACILITIES THAT INCORPORATE FOOD OR MATERIALS PRODUCTION (OR BOTH) WITH FUEL PRODUCTION. THE AUTHOR ANALYZES POSSIBLE SYSTEMS BASED ON SUGARCANE, CORN, AND GUAYULE. (AUTHOR/MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE; 199; 4329; 644-51

ACCESSION NUMBER: EJ185471

CLEARINGHOUSE ACCESSION NUMBER: SE521623

PUBLICATION DATE: MAR 78

TITLE: ENERGY: THE FUTURE OF ELECTRIC ENERGY

PERSONAL AUTHOR: HOMENEMSER, KURT H.

DESCRIPTOR: *ECONOMIC FACTORS; *ENERGY; *NATURAL RESOURCES; *UTILITIES; ELECTRICAL SYSTEMS; ELECTRICITY; ENERGY CONSERVATION; FUTURES (OF SOCIETY); RESOURCE ALLOCATIONS

ISSUE: CIJE1978

ABSTRACT: SUMMARIZES THE DEMANDS, ECONOMICS, AND FUTURE COMPETITION FACING ELECTRIC ENERGY SOURCES. (MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: ENVIRONMENT; 20; 2; 2-3

ACCESSION NUMBER: EJ185473

CLEARINGHOUSE ACCESSION NUMBER: SE521625

PUBLICATION DATE: MAR 78

TITLE: CLEANER COAL CONVERSION

PERSONAL AUTHOR: MELCHER, JOAN

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENERGY CONSERVATION;
*ENVIRONMENTAL RESEARCH; *TECHNOLOGICAL ADVANCEMENT;
*UTILITIES; ENERGY; ENVIRONMENTAL CRITERIA; NATURAL
RESOURCES; *COAL; ELECTRIC POWER GENERATORS

ISSUE: CIJE1978

ABSTRACT: DISCUSSES MAGNETOHYDRODYNAMICS (MHD) AND ITS
POTENTIAL USE IN COAL POWERED ELECTRIC GENERATING PLANTS.
CONSIDERED ARE ITS ADVANTAGES, PROBLEMS, ENVIRONMENTAL
EFFECTS AND DEVELOPMENT IN RUSSIA. (MDR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: ENVIRONMENT; 20; 2; 12-7

ACCESSION NUMBER: EJ185476

CLEARINGHOUSE ACCESSION NUMBER: SE521628

PUBLICATION DATE: MAR 78

TITLE: A FUTURE FOR HYDROPOWER

PERSONAL AUTHOR: ERSKINE, GEORGE S.

DESCRIPTOR: *ENERGY CONSERVATION; *FLUID POWER EDUCATION;
*UTILITIES; *WATER RESOURCES; *ECONOMICS; ENERGY;
ENGINEERING; FUTURES (OF SOCIETY); TECHNOLOGICAL
ADVANCEMENT; *HYDROELECTRIC POWER; ELECTRIC POWER GENERATORS

ISSUE: CIJE1978

ABSTRACT: DISCUSSES DAM AND NON-DAM HYDROELECTRIC POWER
GENERATING POSSIBILITIES AS A PARTIAL SOLUTION TO OUR ENERGY
DILEMMA. (MDR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: ENVIRONMENT; 20; 2; 33-8

ACCESSION NUMBER: EJ185484

CLEARINGHOUSE ACCESSION NUMBER: SE521669

PUBLICATION DATE: MAR 78

TITLE: PERCEPTIONS OF THE ENERGY CRISIS: WHO IS BLAMED AND
HOW DO CITIZENS REACT TO ENVIRONMENT-LIFESTYLE TRADE-OFFS?

PERSONAL AUTHOR: HUMMEL, CARL F.; AND OTHERS

DESCRIPTOR: *ATTITUDES; *BEHAVIOR; *COSTS; *ENERGY
CONSERVATION; *NATURAL RESOURCES; *RESEARCH; ECOLOGICAL
FACTORS; LEGISLATION; LIFE STYLE; PERCEPTION; RESEARCH
REPORTS

ISSUE: CIJE1978

ABSTRACT: TWO REPRESENTATIVE SAMPLES OF RESIDENTS LIVING IN
A COLORADO COMMUNITY WERE SURVEYED DURING ACUTE AND CHRONIC
STAGES OF THE 1973 GASOLINE SHORTAGE. SUPPORT WAS ASSESSED
FOR THREE TYPES OF PRO-ENERGY ACTIONS. APPLICATIONS OF THE
FINDINGS WERE MADE TO THE CURRENT SITUATION OF MANDATORY
PROPOSALS AND ENVIRONMENTAL COSTS. (AUTHOR/MA)

JOURNAL CITATION: ENVIRONMENT AND BEHAVIOR; 10; 1; 37-48

ACCESSION NUMBER: EJ185489

CLEARINGHOUSE ACCESSION NUMBER: SE521709

PUBLICATION DATE: APR 78

TITLE: SCIENCE POLICY: PANGS OF SCIENCE

PERSONAL AUTHOR: HANDLER, PHILIP

DESCRIPTOR: *RESEARCH; *SCIENCES; *SCIENTIFIC PRINCIPLES;
*SOCIAL PROBLEMS; *TECHNOLOGICAL ADVANCEMENT; ECOLOGY;
ENERGY; GENETICS; NUCLEAR PHYSICS; NATIONAL ACADEMY OF
SCIENCES

ISSUE: CIJE1978

ABSTRACT: PRESENTED IS THE PREPARED TEXT OF A PUBLIC
LECTURE GIVEN BY THE PRESIDENT OF THE NATIONAL ACADEMY OF
SCIENCES. DR. HANDLER ATTEMPTS TO ARTICULATE THE STATE OF
SCIENCE TODAY. HE DEALS WITH SUCH ISSUES AS NUCLEAR POWER
AND GENETIC ENGINEERING. (MDR)

JOURNAL CITATION: CHEMICAL AND ENGINEERING NEWS; 56; 16;
29-36

ACCESSION NUMBER: EJ185490

CLEARINGHOUSE ACCESSION NUMBER: SE521782

PUBLICATION DATE: JAN 78

TITLE: ENERGY FROM THE SUN

PERSONAL AUTHOR: HALL, D. O.

DESCRIPTOR: *ENERGY; *PHOTOSYNTHESIS; *PLANT SCIENCE;
*SOLAR RADIATION; BIOLOGY; CHEMISTRY; ENERGY CONSERVATION;

ENVIRONMENTAL EDUCATION; FOOD; PHYSICAL SCIENCES; PHYSICS;
SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: REVIEWS THE LONG TERM IMPLICATIONS OF
PHOTOSYNTHESIS AS A SOURCE OF SOLAR ENERGY AND FOOD. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: EDUCATION IN CHEMISTRY; 15; 1; 8-12

ACCESSION NUMBER: EJ185491

CLEARINGHOUSE ACCESSION NUMBER: SE521783

PUBLICATION DATE: JAN 78

TITLE: ENERGY FROM THE WIND

PERSONAL AUTHOR: PATRICK, M. A.

DESCRIPTOR: *ENERGY; *METEOROLOGY; *RESEARCH; CLIMATIC
FACTORS; ENERGY CONSERVATION; PHYSICAL SCIENCES; PHYSICS;
SCIENCE EDUCATION; *WINDS

ISSUE: CIJE1978

ABSTRACT: REVIEWS THE USE OF WIND AS AN ENERGY SOURCE. THE
STATUS OF WIND POWER RESEARCH IS ALSO DISCUSSED. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: EDUCATION IN CHEMISTRY; 15; 1; 12-5

ACCESSION NUMBER: EJ185492

CLEARINGHOUSE ACCESSION NUMBER: SE521784

PUBLICATION DATE: JAN 78

TITLE: ENERGY FROM THE TIDES

PERSONAL AUTHOR: PATRICK, M. A.

DESCRIPTOR: *EARTH SCIENCE; *ENERGY; *OCEAN ENGINEERING;
*OCEANOLOGY; *RESEARCH; ENERGY CONSERVATION; PHYSICAL
SCIENCES; PHYSICS; SCIENCE EDUCATION; *TIDES

ISSUE: CIJE1978

ABSTRACT: REVIEWS RESEARCH AND TECHNICAL PROBLEMS RELATED
TO THE USE OF TIDAL POWER AS AN ENERGY SOURCE. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: EDUCATION IN CHEMISTRY; 15; 1; 15-7

ACCESSION NUMBER: EJ185493

CLEARINGHOUSE ACCESSION NUMBER: SE521785

PUBLICATION DATE: JAN 78

TITLE: ENERGY FROM THE ATOM

PERSONAL AUTHOR: WALTON, G. N.

DESCRIPTOR: *CHEMISTRY; *ENERGY; *NATURAL RESOURCES;
*NUCLEAR PHYSICS; *WASTE DISPOSAL; ENERGY CONSERVATION;
PHYSICAL SCIENCES; PHYSICS; RESEARCH; SCIENCE EDUCATION;
*NUCLEAR REACTORS

ISSUE: CIJE1978

ABSTRACT: OUTLINES THE SOURCES OF NUCLEAR POWER, TYPES OF
NUCLEAR REACTORS, FACTORS INVOLVED IN THE PROCESSING OF
URANIUM, AND PROBLEMS OF RADIOACTIVE WASTE STORAGE. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: EDUCATION IN CHEMISTRY; 15; 1; 18-21

ACCESSION NUMBER: EJ185494

CLEARINGHOUSE ACCESSION NUMBER: SE521786

PUBLICATION DATE: JAN 78

TITLE: ENERGY FROM SYNTHETIC FUELS

PERSONAL AUTHOR: MCAULIFFE, C. A.

DESCRIPTOR: *CHEMISTRY; *ENERGY; *FUELS; *NATURAL
RESOURCES; *RESEARCH; ENERGY CONSERVATION; FUEL CONSUMPTION;
PHYSICAL SCIENCES; PHYSICS; SCIENCE EDUCATION; *COAL

ISSUE: CIJE1978

ABSTRACT: REVIEWS CHALLENGES FACING THE FUTURE USE OF COAL
AND SYNTHETIC FUELS AS MAJOR ENERGY SOURCES. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: EDUCATION IN CHEMISTRY; 15; 1; 21-4

ACCESSION NUMBER: EJ185495

CLEARINGHOUSE ACCESSION NUMBER: SE521787

PUBLICATION DATE: JAN 78

TITLE: ENERGY FROM OIL AND GAS

PERSONAL AUTHOR: MCAULIFFE, C. A.

DESCRIPTOR: *CHEMISTRY; *ENERGY; *FUEL CONSUMPTION;
*NATURAL RESOURCES; *WORLD PROBLEMS; ENERGY CONSERVATION;

FUTURES (OF SOCIETY); PHYSICAL SCIENCES; PHYSICS; SCIENCE
EDUCATION; *PETROLEUM; *UNITED KINGDOM

ISSUE: CIJE1978

ABSTRACT: REVIEWS MAJOR FUEL SOURCES UTILIZED SINCE THE
MID-1800'S AND PROJECTS ENERGY NEEDS AND FUEL RESERVES UP TO
THE YEAR 2000 FOR THE UNITED KINGDOM. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: EDUCATION IN CHEMISTRY; 15; 1; 24-6

ACCESSION NUMBER: EJ185496

CLEARINGHOUSE ACCESSION NUMBER: SE521788

PUBLICATION DATE: JAN 78

TITLE: ENERGY FROM FUEL CELLS

PERSONAL AUTHOR: TSEUNG, A. C. C.

DESCRIPTOR: *CHEMISTRY; *ENERGY; *ELECTRICITY; *RESEARCH;
CHEMICAL REACTIONS; ENERGY CONSERVATION; PHYSICAL SCIENCES;
PHYSICS; SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: DISCUSSES FUEL CELL PRINCIPLES AND TECHNOLOGY.
REVIEWS AREAS OF NEEDED RESEARCH AND DEVELOPMENT IN ORDER TO
DEVELOP FUEL CELLS INTO A MAJOR ENERGY SOURCE. (SL)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: EDUCATION IN CHEMISTRY; 15; 1; 27-30

ACCESSION NUMBER: EJ185517

CLEARINGHOUSE ACCESSION NUMBER: SE521834

PUBLICATION DATE: APR 78

TITLE: THE PUBLIC AND THE ENERGY PROBLEM

PERSONAL AUTHOR: ROSA, EUGENE

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *PUBLIC OPINION;
*SURVEYS; ECONOMIC CLIMATE; NATURAL RESOURCES; UNEMPLOYMENT

ISSUE: CIJE1978

ABSTRACT: REVIEWS FINDINGS OF 17 NATIONAL SURVEYS
ADMINISTERED BETWEEN 1973 AND 1977 WHICH QUESTIONED THE
SEVERITY OF THE ENERGY PROBLEMS. FINDINGS REVEAL THAT AT
ONLY ONE TIME DURING THE OIL EMBARGO OF 1973-1974, DID THE
AMERICAN PUBLIC RATE ENERGY AS A MORE SERIOUS PROBLEM THAN
ECONOMIC INFLATION. (CP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: BULLETIN OF THE ATOMIC SCIENTIST; 34; 4;
5-7

ACCESSION NUMBER: EJ185578

CLEARINGHOUSE ACCESSION NUMBER: SE521943

PUBLICATION DATE: MAY 78

TITLE: SOME ENERGY PROBLEM PROBLEMS AND SOLUTIONS

PERSONAL AUTHOR: ROSS, JOAN; ROSS, MARC

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *PHYSICS;
*PROBLEM SETS; *SECONDARY SCHOOL SCIENCE; PROBLEMS; SCIENCE
EDUCATION; SCIENCE INSTRUCTION; SECONDARY EDUCATION

ISSUE: CIJE1978

ABSTRACT: PROVIDES THREE SETS OF PROBLEMS RELATING TO THE
EFFECTIVENESS OF ENERGY USE IN THE AREAS OF TRANSPORTATION,
HEATING, AND ELECTRICITY GENERATION. (SL)

JOURNAL CITATION: PHYSICS TEACHER; 16; 5; 272-9

ACCESSION NUMBER: EJ185580

CLEARINGHOUSE ACCESSION NUMBER: SE521945

PUBLICATION DATE: MAY 78

TITLE: STUDENT INVESTIGATIONS IN SOLAR HEATING SYSTEMS

PERSONAL AUTHOR: LIAO, THOMAS T.; REESE, PHILIP F.

DESCRIPTOR: *ENERGY; *PHYSICS; *SCIENCE ACTIVITIES; *SOLAR
RADIATION; *STUDENT PROJECTS; ENERGY CONSERVATION; SCIENCE
EDUCATION; SCIENCE INSTRUCTION; SECONDARY EDUCATION;
SECONDARY SCHOOL SCIENCE

ISSUE: CIJE1978

ABSTRACT: PROVIDES DETAILED DIRECTIONS FOR FIVE SECONDARY
LEVEL SCIENCE ACTIVITIES IN THE CONSTRUCTION AND TESTING OF
A SOLAR ENERGY COLLECTOR SYSTEM. (SL)

JOURNAL CITATION: PHYSICS TEACHER; 16; 5; 283-9

ACCESSION NUMBER: EJ185589

CLEARINGHOUSE ACCESSION NUMBER: SE521954

PUBLICATION DATE: MAY 78

TITLE: THE POWER TO TELL TIME

PERSONAL AUTHOR: HARRISON, JAMES L.; BARTLETT, ALBERT A.

DESCRIPTOR: *ELECTRICITY; *ENERGY; *PHYSICS; *SECONDARY
SCHOOL SCIENCE; *TIME; ENERGY CONSERVATION; SCIENCE
EDUCATION; SCIENCE INSTRUCTION; SECONDARY EDUCATION

ISSUE: CIJE1978

ABSTRACT: DISCUSSES ENERGY CONSUMPTION OF ELECTRIC AND
BATTERY OPERATED ELECTRONIC CLOCKS. (SL)

JOURNAL CITATION: PHYSICS TEACHER; 16; 5; 304-7

ACCESSION NUMBER: EJ185599

CLEARINGHOUSE ACCESSION NUMBER: SE521964

PUBLICATION DATE: MAY 78

TITLE: LASER FUSION

PERSONAL AUTHOR: STICKLEY, G. MARTIN

DESCRIPTOR: *ENERGY; *LASER; *NUCLEAR PHYSICS; *PHYSICS;
*SCIENTIFIC RESEARCH; QUANTUM MECHANICS; RESEARCH;
SCIENTIFIC ENTERPRISE; FUSION

ISSUE: CIJE1978

ABSTRACT: REVIEWS RECENT DEVELOPMENTS IN THE FIELD OF LASER
FUSION. (SL)

JOURNAL CITATION: PHYSICS TODAY; 31; 5; 50-8

ACCESSION NUMBER: EJ185649

CLEARINGHOUSE ACCESSION NUMBER: SE522021

PUBLICATION DATE: MAY 78

TITLE: ENERGY FROM THE WIND

PERSONAL AUTHOR: PELKA, DAVID G.; AND OTHERS

DESCRIPTOR: *COLLEGE SCIENCE; *ELECTRICITY; *ENERGY; *FLUID
POWER EDUCATION; *PHYSICS; ENERGY CONSERVATION; HIGHER
EDUCATION; MECHANICS (PHYSICS); SCIENCE EDUCATION; *WIND
ENERGY

ISSUE: CIJE1978

ABSTRACT: THE LARGE-SCALE GENERATION OF ELECTRICAL POWER BY
WIND TURBINE FIELDS IS DISCUSSED. IT IS SHOWN THAT THE
MAXIMUM POWER THAT CAN BE EXTRACTED BY A WIND TURBINE IS
16/27 OF THE POWER AVAILABLE IN THE WIND. (RB)

JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS; 46; 5; 495-8

ACCESSION NUMBER: EJ185727

CLEARINGHOUSE ACCESSION NUMBER: SE522137

PUBLICATION DATE: MAY 78

TITLE: CHEMICALS FROM WOOD

PERSONAL AUTHOR: CHILDS, P. E.

DESCRIPTOR: *CHEMICAL REACTION; *FUELS; *NATURAL
RESOURCES; *RECYCLING; *RESOURCES; *CHEMISTRY; DEPLETED
RESOURCES; ECOLOGY; ENERGY; ENERGY CONSERVATION; SCIENCE
EDUCATION; *WOOD

ISSUE: CIJE1978

ABSTRACT: LOOKS AT THE POTENTIAL OF WOOD AS A CHEMICAL RAW
MATERIAL TO REPLACE THE DWINDLING SUPPLIES OF FOSSIL FUELS
AS A SOURCE OF HYDROCARBONS AND, TO A LESSER DEGREE, OF
ENERGY. (GA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: EDUCATION IN CHEMISTRY; 15; 3; 79-83

ACCESSION NUMBER: EJ185761

CLEARINGHOUSE ACCESSION NUMBER: SE522199

PUBLICATION DATE: MAY 78

TITLE: PROJECT SUNFIRE

DESCRIPTOR: *ELECTRICITY; *ENERGY; *SCIENCE EQUIPMENT;
*SECONDARY SCHOOL STUDENTS; *SOLAR RADIATION; CONSTRUCTION
(PROCESS); SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: DESCRIBES THE CONSTRUCTION OF A 30 FOOT HIGH
ELECTRICAL SOLAR GENERATOR BY HIGH SCHOOL STUDENTS WITH
SCIENCE TEACHERS AS ADVISORS. THE STUDENTS HAVE DESIGNED AND
CONSTRUCTED THE GENERATOR FROM SPARE AND SCRAP MATERIALS.
(CP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: JOURNAL OF AEROSPACE EDUCATION; 5; 4; 29

ACCESSION NUMBER: EJ185763

CLEARINGHOUSE ACCESSION NUMBER: SE522201

PUBLICATION DATE: JUN 78

TITLE: SAVING WATTS OF ENERGY

PERSONAL AUTHOR: RALOFF, JANET

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *OPTICS;
*SCIENCE MATERIALS; *TECHNOLOGY; ELECTRICITY; *ENERGY

CONSERVATION

ISSUE: CIJE1978

ABSTRACT: PRESENTED ARE DIFFERENT RESEARCH PROGRAM DEVELOPMENTS AIMED AT REDUCING THE CONSUMPTION OF ELECTRICAL ENERGY FOR ARTIFICIAL LIGHTS. EXPLAINS THE IDEA OF THE DIMMERS, WHERE THE AMOUNT OF INCOMING DAYLIGHT REGULATES THE CURRENT NEEDED FOR THE LAMP. (GA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE NEWS; 113; 23; 377-82

ACCESSION NUMBER: EJ185767

CLEARINGHOUSE ACCESSION NUMBER: SE522205

PUBLICATION DATE: JUN 78

TITLE: BIOLOGICAL SOLAR ENERGY CONVERSION AND U.S. ENERGY POLICY

PERSONAL AUTHOR: PIMENTEL, DAVID; AND OTHERS

DESCRIPTOR: *BIOLOGY; *ENERGY; *ENERGY CONSERVATION; *FUELS; *FUEL CONSUMPTION; *NATURAL RESOURCES; *PETROLEUM INDUSTRY; *SOLAR RADIATION

ISSUE: CIJE1978

ABSTRACT: SURVEYS ENERGY CONSUMPTION IN THE UNITED STATES AND EXPLORES THE POSSIBILITY OF INCREASING THE AMOUNT OF ENERGY OBTAINED FROM BIOMASS CONVERSION (BIOLOGICALLY PRODUCED ENERGY). ECONOMIC AND ENVIRONMENTAL CONCERNS OF BIOMASS CONVERSION PROCESSES ARE DISCUSSED. (CP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: BIOSCIENCE; 28; 6; 376-82

ACCESSION NUMBER: EJ185787

CLEARINGHOUSE ACCESSION NUMBER: SE522231

PUBLICATION DATE: JUN 78

TITLE: CHEM I SUPPLEMENT: BATTERIES AND FUEL CELLS

DESCRIPTOR: *CHEMICAL REACTIONS; *ELECTRIC BATTERIES; *CHEMISTRY; *ELECTRICITY; *ENERGY; *FUELS; *INSTRUCTIONAL MATERIALS

ISSUE: CIJE1978

ABSTRACT: PROVIDES A SIMPLE DESCRIPTION OF THE OPERATIONS OF COMMON BATTERIES AND FUEL CELLS. (CP)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: JOURNAL OF CHEMICAL EDUCATION; 55; 6; 399-400

ACCESSION NUMBER: EJ185830

CLEARINGHOUSE ACCESSION NUMBER: SE522274

PUBLICATION DATE: JUN 78

TITLE: FIGURES OF MERIT FOR ENERGY CONVERSION PROCESSES

PERSONAL AUTHOR: RUBIN, MORTON H.

DESCRIPTOR: *CONSERVATION EDUCATION; *EFFICIENCY; *ENERGY; *ENERGY CONSERVATION; *THERMODYNAMICS; *COLLEGE SCIENCE; *HIGHER EDUCATION; *LABORATORY TECHNIQUES; *PHYSICS; *SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: EXPLORES THE PROBLEM OF HOW TO DETERMINE STANDARDS OF PERFORMANCE FOR ENERGY CONVERSION PROCESSES. ARGUES AGAINST INFINITELY SLOW REVERSIBLE PROCESSES AS STANDARDS, AND EXPLORES SIMPLE AND FASTER ALTERNATIVE PROCESSES. (AUTHOR/GA)

JOURNAL CITATION: AMERICAN JOURNAL OF PHYSICS; 46; 6; 637-9

ACCESSION NUMBER: EJ185857

CLEARINGHOUSE ACCESSION NUMBER: SE522373

PUBLICATION DATE: JUN 78

TITLE: COLORADO TOWN CONVERTS COW MANURE TO NATURAL GAS

DESCRIPTOR: *ENERGY; *FUELS; *NATURAL RESOURCES; *RECYCLING; *TECHNOLOGY; *WASTE DISPOSAL; *BIO-CONVERSION

ISSUE: CIJE1978

ABSTRACT: DESCRIBES A LARGE-SCALE BIO-CONVERSION FACILITY THAT WILL PRODUCE METHANE GAS FROM RAW MANURE. AN INNOVATIVE FEATURE OF THE PLANT WILL BE AN ALGAE FARM/WATER RECYCLING UNIT. (AUTHOR/MA)

JOURNAL CITATION: WATER AND WASTES ENGINEERING; 15; 6; 35

ACCESSION NUMBER: EJ185864

CLEARINGHOUSE ACCESSION NUMBER: SE522380

PUBLICATION DATE: JUL/AUG 78

TITLE: HOW SWEDEN SAVES SO MUCH ENERGY

PERSONAL AUTHOR: KEOUGH, JAMES

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *FOREIGN COUNTRIES; *NATURAL RESOURCES; *UTILITIES; *CONSERVATION (ENVIRONMENT); *LEGISLATION; *RESOURCE ALLOCATIONS; *TECHNOLOGICAL ADVANCEMENT; *WORLD PROBLEMS; *SWEDEN

ISSUE: CIJE1978

ABSTRACT: SWEDEN'S NECESSITY FOR AND PRESENT EFFORTS TOWARD ENERGY CONSERVATION ARE DISCUSSED. THE DISTRICT SYSTEM FOR SPACE HEATING AND CERTAIN SWEDISH LAWS THAT PROMOTE ENERGY CONSERVATION ARE DESCRIBED. (MDR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SIERRA CLUB BULLETIN; 63; 6; 8-10

ACCESSION NUMBER: EJ185865

CLEARINGHOUSE ACCESSION NUMBER: SE522381

PUBLICATION DATE: JUL/AUG 78

TITLE: HOW SWEDEN PLANS TO DISPOSE OF NUCLEAR WASTE

PERSONAL AUTHOR: WINCHESTER, ELLEN

DESCRIPTOR: *ENVIRONMENT; *GEOLOGY; *PLANNING; *RADIATION; *WASTE DISPOSAL; *ENERGY; *ENERGY CONSERVATION; *NUCLEAR PHYSICS; *POLLUTION; *WASTES; *WATER POLLUTION; *CONTROL; *NUCLEAR WASTES; *SWEDEN

ISSUE: CIJE1978

ABSTRACT: A PLAN FOR THE DISPOSAL OF NUCLEAR REACTOR WASTES IN SWEDEN IS OUTLINED. THE DISCUSSION ALSO EXAMINES THE POSSIBLE HAZARDS NOT CONSIDERED IN THIS PLAN. (MDR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SIERRA CLUB BULLETIN; 63; 6; 10-1

ACCESSION NUMBER: EJ185867

CLEARINGHOUSE ACCESSION NUMBER: SE522383

PUBLICATION DATE: JUL/AUG 78

TITLE: HEALTH AND HIGH VOLTAGE

PERSONAL AUTHOR: DAVIS, KELLY

DESCRIPTOR: *ELECTRICITY; *ENERGY; *ENVIRONMENT; *PUBLIC HEALTH; *TECHNOLOGICAL ADVANCEMENT; *UTILITIES; *ELECTRIC CIRCUITS

ISSUE: CIJE1978

ABSTRACT: A DISCUSSION OF THE HAZARDS AND POSSIBLE SOLUTIONS TO THE HAZARDS OF EXTRA-HIGH-VOLTAGE (EHV) ELECTRICAL POWER LINES ARE PRESENTED. (MDR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SIERRA CLUB BULLETIN; 63; 6; 23-5

ACCESSION NUMBER: EJ185869

CLEARINGHOUSE ACCESSION NUMBER: SE522385

PUBLICATION DATE: JUL 78

TITLE: ALTERNATIVE AUTOMOBILE ENGINES

PERSONAL AUTHOR: WILSON, DAVID GOLDON

DESCRIPTOR: *AUTO MECHANICS; *ENERGY CONSERVATION; *ENGINES; *MOTOR VEHICLES; *TECHNOLOGY; *COMPARATIVE ANALYSIS; *FUELS; *SCIENCE EDUCATION

ISSUE: CIJE1978

ABSTRACT: REQUIREMENTS FOR CLEANER AND MORE EFFICIENT ENGINES HAVE STIMULATED A SEARCH FOR ALTERNATIVES TO THE CONVENTIONAL SPARK-IGNITION ENGINE. SO FAR, THE DEFECTS OF THE ALTERNATIVE ENGINES ARE CLEARER THAN THE VIRTUES. THE FOLLOWING ENGINES ARE COMPARED: SPARK IGNITION, DIESEL, VAPOR-CYCLE, STIRLING, AND GAS TURBINE. (AUTHOR/MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENTIFIC AMERICAN; 239; 1; 39-49

ACCESSION NUMBER: EJ185916

CLEARINGHOUSE ACCESSION NUMBER: SE522442

PUBLICATION DATE: JUL 78

TITLE: NUCLEAR WASTE: INCREASING SCALE AND SOCIOPOLITICAL IMPACTS

PERSONAL AUTHOR: LA PORTE, TODD R.

DESCRIPTOR: *ENERGY; *MANAGEMENT SYSTEMS; *NUCLEAR PHYSICS; *POLITICAL INFLUENCES; *RADIATION EFFECTS; *SOCIAL INFLUENCES; *MILITARY SCIENCE; *SCIENCE EDUCATION; *TECHNOLOGY; *WASTE DISPOSAL

ISSUE: CIJE1978

ABSTRACT: DISCUSSES THE IMPACT OF RADIOACTIVE WASTE MANAGEMENT SYSTEM ON SOCIAL AND POLITICAL DEVELOPMENT. THE ARTICLE ALSO PRESENTS (1) TYPES OF INFORMATION NECESSARY TO ESTIMATE THE COSTS AND CONSEQUENCES OF RADIOACTIVE WASTE MANAGEMENT; AND (2) AN INDEX OF RADIOACTIVE HAZARDS TO IMPROVE THE BASIS FOR POLICY DECISIONS. (HNI)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII): UMI

JOURNAL CITATION: SCIENCE; 201; 4350; 22-8

ACCESSION NUMBER: EJ185947
CLEARINGHOUSE ACCESSION NUMBER: SE522503
PUBLICATION DATE: JUL 78
TITLE: WASTE: A HOT ITEM THESE DAYS
PERSONAL AUTHOR: JOSEPHSON, JULIAN

DESCRIPTOR: *ENERGY CONSERVATION; *HEAT; *INDUSTRIAL TECHNOLOGY; *NATURAL RESOURCES; *WASTE DISPOSAL; ENERGY POLLUTION; WATER RESOURCES

ISSUE: CIJE1978

ABSTRACT: DESCRIBES TECHNOLOGIES USED TO CONSERVE ENERGY BY USING PROCESS WASTES IN THE FOLLOWING SITUATIONS: (1) INCINERATION AT A PHOTOGRAPHIC COMPANY; (2) WET OXIDATION AT A PAPER MILL; AND (3) SEWAGE SKIMMINGS FUEL AT A MUNICIPAL WASTE WATER PLANT. (MA)

JOURNAL CITATION: ENVIRONMENTAL SCIENCE AND TECHNOLOGY; 12; 7: 754-6

ABSTRACT: LONG-TERM PLANNING FOR PROFESSIONAL TRAINING OF ELECTRIC-POWER SPECIALISTS IN RUSSIA WILL HAVE TO (1) RECOGNIZE THE NEED FOR SPECIALISTS TO ADAPT TO UNFORESEEN DEVELOPMENTS IN THE FIELD, (2) INCLUDE NEW MATHEMATICS, PHYSICS, AND COMPUTER TECHNOLOGY, AND (3) BE PREPARED FOR CHANGES IN METHODS OF PRODUCTION AND TRANSFORMATION OF ENERGY. (AV)

JOURNAL CITATION: SOVIET EDUCATION; 20; 6: 68-78

ACCESSION NUMBER: EJ185952
CLEARINGHOUSE ACCESSION NUMBER: SE522511
PUBLICATION DATE: JUN 78
TITLE: SOLAR ENERGY COMES OF AGE
PERSONAL AUTHOR: PREGMAN, SANDRA E.

DESCRIPTOR: *ENERGY; *ENERGY CONSERVATION; *POLICY FORMATION; *SOLAR RADIATION; *TECHNOLOGY; FUELS; NATURAL RESOURCES

ISSUE: CIJE1978

ABSTRACT: DISCUSSES THE DEVELOPMENT OF NATIONAL ENERGY POLICY. EXAMINES THE ECONOMICS AND TECHNOLOGY OF SOLAR SYSTEMS AND COMPARES THESE TO OTHER ENERGY FUELS. (MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: ENVIRONMENT; 20; 5: 25-31

ACCESSION NUMBER: EJ185953
CLEARINGHOUSE ACCESSION NUMBER: SE522512
PUBLICATION DATE: JUN 78
TITLE: DETENTE FOR COAL?
PERSONAL AUTHOR: ALEXANDER, TOM

DESCRIPTOR: *ECONOMICS; *ENERGY CONSERVATION; *ENVIRONMENT; *INDUSTRY; *NATURAL RESOURCES; *POLLUTION; AIR POLLUTION CONTROL; FUELS; *COAL

ISSUE: CIJE1978

ABSTRACT: A NATIONAL COMMITMENT WAS MADE A DECADE AGO TO REPAIR THE DAMAGE INDUSTRIAL SOCIETY HAD BROUGHT ON THE PHYSICAL SURROUNDINGS. THAT COMMITMENT LEFT UNANSWERED WHAT TECHNICAL METHODS SHOULD BE EMPLOYED IN THE REPAIR JOB. THIS ARTICLE DISCUSSES THE PROBLEMS FACED BY THE ENVIRONMENTALIST AND THE INDUSTRIALIST CONCERNING A COAL POLICY. (AUTHOR/MA)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: ENVIRONMENT; 20; 5: 32-9

ACCESSION NUMBER: EJ185957
CLEARINGHOUSE ACCESSION NUMBER: SE522588
PUBLICATION DATE: AUG-SEP 78
TITLE: 25 WAYS TO SLASH YOUR UTILITY BILLS
PERSONAL AUTHOR: ROTHCHILD, JOHN

DESCRIPTOR: *COST EFFECTIVENESS; *ENERGY CONSERVATION; *HEATING; *HOME MANAGEMENT; *UTILITIES; APPLIANCE REPAIRING; ELECTRICAL APPLIANCES; ENERGY; ENVIRONMENTAL EDUCATION; LIGHTING; MAINTENANCE; *ENERGY EDUCATION

ISSUE: CIJE1978

ABSTRACT: TWENTY-FIVE HOME MAINTENANCE AND IMPROVEMENT IDEAS TO REDUCE UTILITY BILLS ARE GIVEN. THESE PRACTICAL IDEAS RANGE FROM HOT WATER HEATER CLEANING AND INSULATION TO PLANTING WIND BREAKS. (MDR)

AVAILABILITY: REPRINT AVAILABLE (SEE P. VII); UMI

JOURNAL CITATION: NATIONAL WILDLIFE; 16; 5: 17-9

ACCESSION NUMBER: EJ186018
CLEARINGHOUSE ACCESSION NUMBER: SD506532
PUBLICATION DATE: APR 78

TITLE: A LONG-TERM MODEL FOR THE CURRICULUM OF TRAINING FOR AN ELECTRIC-POWER SPECIALIST

PERSONAL AUTHOR: VENIKOV, V. A.

DESCRIPTOR: *COMPARATIVE EDUCATION; *ENGINEERING TECHNOLOGY; *ELECTRICAL OCCUPATIONS; *EDUCATIONAL NEEDS; *FUTURE OF SOCIETY; ELECTRICITY; SPECIALIZATION; FOREIGN COUNTRIES; PROFESSIONAL EDUCATION; HIGHER EDUCATION; *USSR

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*CALCULUS	(2)	EJ133389	EJ150642						
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CALIFORNIA (SAN DIEGO)	(11)	EJ157063							
*CAMPUSES	(11)	EJ091248							
CAMPUSES	(11)	EJ155374							
CAMPUS PLANNING	(11)	EJ172705							
*CANADA	(4)	EJ131428	EJ171429	EJ141789	EJ174274				
CANADA	(2)	EJ126435	EJ126436						
CANADA (ONTARIO)	(11)	EJ134431							
CANADIAN COALITION FOR NUCLEAR RESPONSIBILITY	(11)	EJ141789							
*CAREER OPPORTUNITIES	(11)	EJ105802							
*CAREERS	(11)	EJ121417							
CARLETON ONTARIO PUBLIC SCHOOLS	(11)	EJ153621							
*CARPETING	(2)	EJ105869	EJ105890						
CAR POOLS	(11)	EJ105892							
*CARTER (JIMMY)	(11)	EJ148907							
*CASE STUDIES	(2)	EJ089420	EJ116453						
*CASE STUDIES (EDUCATION)	(11)	EJ098235							
CASE STUDIES (EDUCATION)	(11)	EJ139908							
CEILINGS	(11)	EJ076226							
*CERTIFICATION	(11)	EJ181444							
CETA	(11)	EJ167253							
*CHANGE STRATEGIES	(2)	EJ175704	EJ194526						
CHANGE STRATEGIES	(2)	EJ153210	EJ183176						
*CHANGING ATTITUDES	(3)	EJ091677	EJ184512	EJ185424					
*CHECK LISTS	(2)	EJ134430	EJ165911						
CHECK LISTS	(4)	EJ092648	EJ146478	EJ150180	EJ162206				
CHEMICAL ANALYSIS	(2)	EJ143447	EJ150579						

*CHEMICAL INDUSTRY	(4)	EJ086874	EJ109940	EJ111515	EJ119891			
CHEMICAL INDUSTRY	(2)	EJ090137	EJ136677					
*CHEMICAL REACTIONS	(3)	EJ063908	EJ185727	EJ185787				
CHEMICAL REACTIONS	(5)	EJ062494	EJ086629	EJ143560	EJ178413	EJ185496		
*CHEMISTRY	(17)	EJ062494	EJ063908	EJ067229	EJ095155	EJ104752	EJ104896	EJ111503
		EJ114753	EJ122213	EJ150579	EJ174306	EJ178413	EJ180014	EJ185494
		EJ185495	EJ185496					
CHEMISTRY	(18)	EJ020653	EJ088383	EJ090121	EJ107914	EJ111513	EJ111515	EJ116503
		EJ116505	EJ114891	EJ124812	EJ143560	EJ164941	EJ164966	EJ174482
		EJ185496	EJ185727	EJ185787				EJ185425
CHICAGO ILLINOIS PUBLIC SCHOOLS	(1)	FJ153613						
*CHILD DEVELOPMENT	(1)	EJ094550						
*CHILD PSYCHOLOGY	(1)	EJ094550						
*CITIZEN PARTICIPATION	(2)	EJ045992	EJ131429					
CITIZEN PARTICIPATION	(2)	EJ060535	EJ123232					
CITIZEN ROLE	(1)	EJ093638						
*CITY PLANNING	(2)	EJ094585	EJ152382					
CITY PLANNING	(1)	EJ079414						
CITY PROBLEMS	(1)	FJ160592						
*CLASS ACTIVITIES	(3)	EJ126887	EJ147229	EJ168491				
*CLASSIFICATION	(1)	EJ092668						
*CLASSROOM ENVIRONMENT	(2)	EJ084429	EJ104164					
CLASSROOM ENVIRONMENT	(1)	EJ105846						
*CLASSROOM MATERIALS	(1)	FJ183644						
CLEAN AIR ACT	(2)	EJ128199	EJ147064					
CLEANING	(1)	EJ104234						
*CLIMATE CONTROL	(18)	EJ086828	EJ089430	EJ092652	EJ092666	EJ102525	EJ102526	EJ102611
		EJ109213	EJ109219	EJ114207	EJ134432	EJ134485	EJ148091	EJ150211
		FJ170765	EJ171529	EJ178608				EJ153634
CLIMATE CONTROL	(20)	EJ047972	EJ092634	EJ092668	EJ092669	EJ092690	EJ125781	EJ124334
		EJ130004	EJ134430	EJ134431	EJ136644	EJ150208	EJ153613	EJ158789
		EJ167232	EJ169751	EJ169752	EJ169858	EJ173090		
*CLIMATIC FACTORS	(1)	EJ162588						
CLIMATIC FACTORS	(4)	EJ086828	EJ130018	EJ150208	EJ185491			
*CLUB OF ROME	(1)	FJ109846						
*COAL	(11)	EJ088411	EJ095084	EJ106478	EJ106479	EJ113178	EJ182252	EJ185396
		EJ185426	EJ185473	EJ185494	EJ185953			
COAL	(3)	EJ106340	EJ129974	EJ136671				
*COAL GASIFICATION	(1)	EJ051743						
*COGNITIVE DEVELOPMENT	(1)	EJ094550						
COINCIDENT DEMAND METERING	(1)	EJ094658						
*COLLECTIVE BARGAINING	(1)	EJ090800						
*COLLEGE ADMINISTRATION	(1)	EJ141481						
COLLEGE BUILDINGS	(2)	EJ150209	EJ164156					
*COLLEGE CURRICULUM	(1)	FJ100132						
COLLEGE CURRICULUM	(1)	EJ117014						
*COLLEGE LIBRARIES	(1)	EJ164177						
COLLEGE LIBRARIES	(1)	EJ148562						
*COLLEGE MATHEMATICS	(1)	EJ133389						
COLLEGE OF THE ATLANTIC	(1)	EJ091248						
*COLLEGE PLANNING	(1)	EJ146555						
COLLEGES	(4)	FJ091228	EJ091248	EJ092648	EJ105880			
*COLLEGE SCIENCE	(32)	EJ015034	EJ016322	EJ021954	EJ023376	EJ024076	EJ027033	EJ029431
		EJ068744	EJ072282	EJ078527	EJ103133	EJ116475	EJ121423	EJ123186
		EJ122194	EJ127782	EJ140210	EJ145422	EJ148789	EJ148829	EJ150574
		EJ157414	EJ166578	EJ170432	EJ176292	EJ176312	EJ178413	EJ179745
		EJ185649						EJ180014
COLLEGE SCIENCE	(21)	EJ020653	EJ045991	EJ047944	EJ051754	EJ086872	EJ086917	EJ090121
		EJ095084	EJ109864	EJ111459	EJ114841	EJ114918	EJ114922	EJ116496
		EJ119863	EJ121726	EJ140140	EJ155780	EJ179843	EJ185830	EJ119862
*COLLEGE STORES	(2)	EJ170142	FJ183178					
*COLLEGE STUDENTS	(2)	EJ134068	EJ168424					
COLOR	(1)	EJ148486						
*COLORADO	(1)	EJ169791						
COLORADO	(1)	EJ154218						
COLORADO (DENVER)	(3)	EJ144562	EJ150209	EJ150210				
*COLUMBIA UNIVERSITY	(1)	FJ158793						
*COMICS (PUBLICATIONS)	(1)	EJ183644						
COMMUNICATIONS	(1)	EJ152150						
COMMUNICATION (THOUGHT TRANSFER)	(1)	EJ109840						
*COMMUNITY BENEFITS	(1)	EJ020656						
*COMMUNITY COLLEGES	(3)	EJ098235	EJ124146	EJ157028				

COMMUNITY COLLEGES	(10)	EJ112199	EJ150204	EJ158797	EJ172299	EJ172300	EJ172301	EJ172303
	EJ172305	EJ172309	EJ185213					
COMMUNITY COOPERATION	(1)	EJ110311						
*COMMUNITY EDUCATION	(1)	EJ092735						
COMMUNITY EDUCATION	(1)	EJ185213						
*COMMUNITY INVOLVEMENT	(2)	EJ119203	EJ160941					
COMMUNITY INVOLVEMENT	(2)	EJ175169	EJ185213					
*COMMUNITY PLANNING	(1)	EJ170772						
COMMUNITY PLANNING	(1)	EJ153210						
*COMMUNITY PROBLEMS	(2)	EJ023386	EJ172300					
COMMUNITY RESOURCES	(1)	EJ170772						
COMMUNITY ROLE	(1)	EJ178839						
*COMMUNITY SERVICE PROGRAMS	(2)	EJ172299	EJ172300					
*COMMUNITY TECHNOLOGY	(1)	EJ110138						
COMPARATIVE ANALYSIS	(2)	EJ082625	EJ185569					
*COMPARATIVE EDUCATION	(1)	EJ186018						
*COMPONENT BUILDING SYSTEMS	(2)	EJ092666	EJ092668					
COMPONENT BUILDING SYSTEMS	(1)	EJ145883						
COMPONENTIAL ANALYSIS	(1)	EJ060277						
COMPREHENSIVE EMPLOYMENT AND TRAINING ACT	(1)	EJ167233						
*COMPUTER ASSISTED INSTRUCTION	(1)	EJ126782						
*COMPUTER ORIENTED PROGRAMS	(5)	EJ092625	EJ097861	EJ102525	EJ102608	EJ105882		
COMPUTER ORIENTED PROGRAMS	(1)	EJ099430						
*COMPUTER PROGRAMS	(1)	EJ104168						
COMPUTER PROGRAMS	(3)	EJ102525	EJ102608	EJ171539				
*COMPUTERS	(2)	EJ092652	EJ092653					
COMPUTERS	(1)	EJ116592						
*COMPUTER SCIENCE	(5)	EJ125781	EJ132511	EJ171539	EJ173511	EJ173512		
COMPUTER SCIENCE	(1)	EJ141215						
*CONCEPT FORMATION	(1)	EJ124298						
*CONCEPT TEACHING	(1)	EJ128288						
CONCEPT TEACHING	(1)	EJ001325						
*CONFERENCE REPORTS	(4)	EJ096823	EJ098453	EJ121415	EJ136861	EJ147064	EJ147162	EJ152148
	EJ159464	EJ176213						
CONFERENCE REPORTS	(2)	EJ096874	EJ126631					
*CONFERENCES	(2)	EJ143463	EJ152148					
CONFERENCES	(2)	EJ126651	EJ147162					
*CONFLICT	(1)	EJ160822						
CONSERVATION	(1)	EJ098137						
*CONSERVATION (CONCEPT)	(27)	EJ070758	EJ076226	EJ078525	EJ084477	EJ084486	EJ084491	EJ087709
	EJ087714	EJ087779	EJ089404	EJ089411	EJ089412	EJ089413	EJ089427	EJ089428
	EJ089429	EJ089430	EJ089431	EJ089438	EJ091248	EJ092615	EJ092626	EJ092639
	EJ092648	EJ092650	EJ092652	EJ092653				
CONSERVATION (CONCEPT)	(1)	EJ024076						
*CONSERVATION EDUCATION	(22)	EJ079414	EJ088293	EJ092723	EJ094490	EJ094407	EJ096827	EJ121645
	EJ123238	EJ131679	EJ136644	EJ153632	EJ154218	EJ160829	EJ164424	EJ168506
	EJ170763	EJ170764	EJ171062	EJ172970	EJ172971	EJ178611	EJ185830	
CONSERVATION EDUCATION	(21)	EJ037159	EJ037833	EJ082036	EJ107892	EJ116453	EJ117569	EJ119959
	EJ121447	EJ121447	EJ126436	EJ128322	EJ128322	EJ134068	EJ136634	EJ150180
	EJ160054	EJ172515	EJ178608	EJ180143	EJ180159	EJ184526		
*CONSERVATION (ENVIRONMENT)	(19)	EJ102560	EJ104751	EJ106340	EJ106422	EJ106482	EJ106483	EJ117895
	EJ120477	EJ133552	EJ134068	EJ134082	EJ140044	EJ162434	EJ163146	EJ168506
	EJ172301	EJ174274	EJ178444	EJ183176				
CONSERVATION (ENVIRONMENT)	(21)	EJ106480	EJ110911	EJ121567	EJ126790	EJ126843	EJ129972	EJ129973
	EJ121429	EJ143503	EJ154218	EJ162910	EJ163051	EJ166829	EJ166835	EJ172300
	EJ172309	EJ172515	EJ180592	EJ182250	EJ184512	EJ185864		
CONSORTIA	(1)	EJ172300						
*CONSTRUCTION COSTS	(1)	EJ119239						
CONSTRUCTION COSTS	(7)	EJ092728	EJ115870	EJ158787	EJ162589	EJ167826	EJ176620	EJ183176
*CONSTRUCTION MANAGEMENT	(1)	EJ158787						
CONSTRUCTION NEEDS	(1)	EJ088518						
*CONSTRUCTION (PROCESS)	(4)	EJ098518	EJ162588	EJ162590	EJ184516			
CONSTRUCTION (PROCESS)	(4)	EJ119202	EJ140160	EJ170142	EJ185761			
CONSULTANTS	(1)	EJ155117						
*CONSUMER ECONOMICS	(4)	EJ068819	EJ113097	EJ121645	EJ152048			
CONSUMER ECONOMICS	(5)	EJ090900	EJ114735	EJ119841	EJ131428	EJ172970		
*CONSUMER EDUCATION	(7)	EJ088435	EJ108693	EJ121645	EJ172970	EJ172971	EJ178324	EJ184526
CONSUMER EDUCATION	(4)	EJ161409	EJ165221	EJ180155	EJ184524			
*CONTINUING EDUCATION CENTERS	(1)	EJ143403						
*CONTROLLED ENVIRONMENT	(1)	EJ087714						
CONTROLLED ENVIRONMENT	(9)	EJ076226	EJ092652	EJ121429	EJ130004	EJ145883	EJ178313	EJ182148

	EJ182149	EJ182150							
CONTROL SYSTEMS	(1)	EJ167865							
*CONTROVERSIAL ISSUES	(1)	EJ166649							
COOLING SYSTEMS	(1)	EJ102611							
COOPERATIVE PLANNING	(1)	EJ163196							
*CORN (FIELD CROP)	(2)	EJ088352	EJ121574						
CORPORAL PUNISHMENT	(1)	EJ182600							
*COST EFFECTIVENESS	(60)	EJ058862	EJ062101	EJ082623	EJ082624	EJ092625	EJ092627	EJ089412	
	EJ089421	EJ089422	EJ042636	EJ092663	EJ092667	EJ092728	EJ094658	EJ046777	
	EJ094448	EJ102521	EJ102540	EJ102571	EJ102605	EJ104169	EJ104213	EJ104219	
	EJ114210	EJ115870	EJ119203	EJ119238	EJ121574	EJ124166	EJ124215	EJ125781	
	EJ129346	EJ130088	EJ132511	EJ134488	EJ136075	EJ136660	EJ141481	EJ146478	
	EJ146490	EJ148076	EJ148079	EJ155370	EJ157025	EJ162205	EJ162208	EJ162231	
	EJ162589	EJ165851	EJ165856	EJ169814	EJ171539	EJ173512	EJ175842	EJ176620	
	EJ181468	EJ182250	EJ183225	EJ183229	EJ185957				
COST EFFECTIVENESS	(27)	EJ070758	EJ082626	EJ082628	EJ084491	EJ089411	EJ089419	EJ089420	
	EJ092668	EJ092723	EJ105824	EJ110960	EJ117570	EJ119453	EJ125788	EJ126651	
	EJ127684	EJ128201	EJ133445	EJ136492	EJ136046	EJ143559	EJ144429	EJ145507	
	EJ146492	EJ150176	EJ150210	EJ159789					
*COST INDEXES	(1)	EJ136078							
*COST REDUCTION INCENTIVE AWARD PROGRAM	(1)	EJ155370							
*COSTS	(7)	EJ073062	EJ044567	EJ107280	EJ155117	EJ172305	EJ172309	EJ185484	
COSTS	(9)	EJ081791	EJ094613	EJ096777	EJ116453	EJ125815	EJ129473	EJ141481	
	EJ143580	EJ150181							
*COUNCIL ON ENVIRONMENTAL QUALITY	(1)	EJ064834							
*COUNSELING PROGRAMS	(1)	EJ105892							
*COURSE CONTENT	(3)	EJ121423	EJ140140	EJ180155					
COURSE CONTENT	(3)	EJ090643	EJ114753	EJ180157					
*COURSE DESCRIPTIONS	(14)	EJ024076	EJ054231	EJ073282	EJ090643	EJ100132	EJ114753	EJ116475	
	EJ121423	EJ128663	EJ130210	EJ151866	EJ160054	EJ178245	EJ181444		
*COURT LITIGATION	(1)	EJ074463							
COURT LITIGATION	(2)	EJ090900	EJ147064						
CREATIVE TEACHING	(1)	EJ165233							
CULTURE CONFLICT	(1)	EJ098721							
*CURRENT EVENTS	(2)	EJ166649	EJ176182						
CURRENT EVENTS	(1)	EJ088582							
*CURRICULUM	(6)	EJ024076	EJ095155	EJ100132	EJ111458	EJ161108	EJ168444		
CURRICULUM	(5)	EJ032627	EJ073282	EJ126147	EJ151866	EJ184412			
*CURRICULUM DESIGN	(1)	EJ152301							
*CURRICULUM DEVELOPMENT	(15)	EJ042685	EJ083246	EJ094590	EJ094607	EJ108493	EJ113773	EJ118441	
	EJ128284	EJ140140	EJ158252	EJ163051	EJ170764	EJ172294	EJ178800	EJ180155	
CURRICULUM DEVELOPMENT	(10)	EJ054231	EJ114971	EJ116475	EJ128463	EJ130210	EJ160054	EJ162910	
	EJ170763	EJ171062	EJ178834						
*CURRICULUM GUIDES	(1)	EJ090643							
CURRICULUM PLANNING	(1)	EJ094590							
CV 100	(1)	EJ134431							
DATA ANALYSIS	(1)	EJ126887							
*DATA BASES	(2)	EJ126255	EJ179523						
DATA BASES	(1)	EJ134764							
DAYLIGHT	(1)	EJ086828							
DEATH	(1)	EJ155922							
DEBATE	(1)	EJ126795							
*DECISION MAKING	(4)	EJ091778	EJ133248	EJ147064	EJ184524				
DECISION MAKING	(2)	EJ128199	EJ185213						
*DECISION MAKING SKILLS	(1)	EJ170625							
DECISION MAKING SKILLS	(1)	EJ147229							
DEFINITIONS	(1)	EJ158766							
DEMAND OCCUPATIONS	(1)	EJ173090							
DEMOGRAPHY	(2)	EJ053154	EJ126660						
*DEMONSTRATION PROJECTS	(1)	EJ150212							
DEMONSTRATION PROJECTS	(1)	EJ158326							
*DEMONSTRATIONS (EDUCATIONAL)	(3)	EJ040121	EJ098570	EJ180164					
DEMONSTRATIONS (EDUCATIONAL)	(1)	EJ062494							
DENMARK	(1)	EJ126556							
*DEPARTMENT OF ENERGY	(1)	EJ180155							
*DEPARTMENT OF TRANSPORTATION	(1)	EJ114905							
*DEPARTMENTS	(1)	EJ157025							
*DEPLETED RESOURCES	(21)	EJ037833	EJ074425	EJ082036	EJ086874	EJ088734	EJ088835	EJ088833	
	EJ090004	EJ091778	EJ094491	EJ096827	EJ096885	EJ116508	EJ123337	EJ126556	
	EJ126790	EJ135228	EJ136664	EJ165221	EJ172515	EJ172470			
DEPLETED RESOURCES	(22)	EJ037160	EJ046543	EJ088518	EJ088550	EJ090137	EJ090158	EJ096886	
	EJ101461	EJ112190	EJ114211	EJ119952	EJ119453	EJ126887	EJ136644	EJ134408	
	EJ150543	EJ160514	EJ178713	EJ179314	EJ180934	EJ185427	EJ185727		

*DESIGN BUILD APPROACH	(11)	EJ119203							
*DESIGNERS	(11)	EJ110911							
*DESIGN NEEDS	(12)	EJ094613	EJ105846						
DESIGN NEEDS	(12)	EJ092667	EJ097881						
*DEVELOPED NATIONS	(12)	EJ091776	EJ119888						
DEVELOPED NATIONS	(11)	EJ136654							
*DEVELOPING NATIONS	(14)	EJ106502	EJ136680	EJ180187	FJ180592				
DEVELOPING NATIONS	(15)	EJ086400	EJ061005	EJ136654	EJ143559	EJ180190			
*DEVELOPMENT	(13)	EJ098721	EJ106136	FJ123229					
*DIESEL ENGINES	(11)	EJ023377							
*DIRECTORIES	(11)	EJ173990							
*DISARMAMENT	(11)	EJ182150							
DISARMAMENT	(11)	EJ185420							
*DISCIPLINE POLICY	(11)	EJ104102							
DISCUSSION (TEACHING TECHNIQUE)	(11)	EJ134908							
DOE	(11)	EJ180155							
DOT	(11)	EJ114905							
*DRUG LEGISLATION	(11)	FJ055962							
*DRY CELLS	(11)	EJ063908							
*EARTH SCIENCE	(14)	EJ023376	EJ045129	EJ082034	EJ111459	EJ124779	EJ128365	EJ145507	
EARTH SCIENCE	EJ106166	EJ182292	EJ185396	EJ185405	EJ185416	EJ185420	EJ185492		
	(17)	EJ044038	EJ086823	EJ106478	EJ119942	EJ166697	EJ185401	EJ185410	
*ECOLOGICAL FACTORS	(11)	EJ016599	EJ045130	EJ095150	EJ102162	EJ102163	EJ116544	EJ123225	
ECOLOGICAL FACTORS	EJ145507	FJ153210	FJ162589	FJ162590					
	(16)	EJ070758	EJ086829	EJ090158	EJ095155	EJ101463	EJ116545	EJ123226	
	EJ123229	EJ123238	EJ126436	FJ131679	FJ144929	FJ166697	FJ178609	EJ179861	
	EJ185484								
*ECOLOGY	(15)	EJ068012	EJ088803	EJ070759	EJ072970	EJ074478	EJ098142	EJ100022	
ECOLOGY	EJ105184	EJ116410	FJ118144	FJ128443	FJ121429	EJ131564	EJ131674	FJ179843	
	(18)	EJ058862	EJ068796	EJ070366	EJ072971	EJ079423	EJ082038	EJ095150	
	EJ098721	EJ109901	FJ121418	EJ124779	EJ126432	FJ126834	EJ128424	FJ131428	
	EJ136660	EJ185489	EJ185727						
	(11)	EJ140262							
*ECONOMICALLY DISADVANTAGED	(12)	EJ136654	EJ184526						
*ECONOMIC CHANGE	(12)	EJ116502	EJ136664						
ECONOMIC CHANGE	(11)	EJ090800							
*ECONOMIC CLIMATE	(13)	EJ110411	EJ176412	EJ185517					
ECONOMIC CLIMATE	(16)	FJ091775	FJ104744	FJ106502	EJ114901	EJ179974	FJ176213		
*ECONOMIC DEVELOPMENT	(13)	EJ100136	EJ123229	EJ160822					
ECONOMIC DEVELOPMENT	(11)	EJ106502							
*ECONOMIC DISADVANTAGEMENT	(12)	EJ045127	EJ046425	EJ095150	EJ096777	EJ098827	EJ123177	EJ123178	
ECONOMIC DISADVANTAGEMENT	EJ124847	EJ126556	EJ174274	EJ182250	EJ185471				
*ECONOMIC FACTORS	(15)	EJ044233	FJ044234	EJ045125	EJ045128	EJ087227	EJ086827	EJ086828	
ECONOMIC FACTORS	EJ102162	EJ102163	FJ116539	EJ123203	EJ131551	EJ151947	EJ157048	EJ182249	
	(11)	EJ136654							
ECONOMIC PROGRESS	(14)	EJ104744	EJ124926	EJ136660	FJ136677				
*ECONOMIC RESEARCH	(12)	EJ092663	EJ143560						
ECONOMIC RESEARCH	(13)	EJ044880	EJ058278	EJ058862	EJ087704	FJ104901	EJ118292	EJ121506	
	EJ121613	EJ123225	EJ123227	EJ123229	EJ126432	EJ128434	EJ128199	EJ128200	
	EJ131428	EJ143463	EJ147088	EJ178444	EJ179861	EJ182249	EJ182363	EJ185953	
*ECONOMICS	(16)	EJ034117	EJ062101	EJ064036	EJ067225	EJ091776	EJ092615	EJ095252	
ECONOMICS	EJ111501	EJ113178	EJ113181	FJ121574	EJ124926	FJ126663	EJ128201	EJ133244	
	EJ140180	EJ150543	EJ161097	EJ185428	FJ185476				
	(11)	EJ129972							
*ECONOMIC STATUS	(11)	EJ183644							
EDISON ELECTRIC INSTITUTE	(11)	EJ118539							
*EDITORIALS	(14)	EJ058278	EJ067225	EJ074478	EJ082293	EJ088393	EJ088463	FJ104751	
EDITORIALS	EJ140044	FJ155810							
*EDUCATION	(11)	EJ129972							
*EDUCATIONAL ADMINISTRATION	(11)	EJ097891							
*EDUCATIONAL ALTERNATIVES	(12)	EJ151338	FJ165233						
*EDUCATIONAL CHANGE	(11)	EJ126147							
EDUCATIONAL CHANGE	(11)	EJ094590							
EDUCATIONAL COMPLEXES	(11)	FJ144929							
EDUCATIONAL COORDINATION	(11)	EJ185733							
*EDUCATIONAL DEVELOPMENT	(11)	FJ132600							
EDUCATIONAL DEVELOPMENT	(11)	EJ136634							
EDUCATIONAL ECONOMICS	(11)	FJ070758							
EDUCATIONAL EQUIPMENT	(11)	FJ176342							
*EDUCATIONAL FACILITIES	(17)	EJ082623	EJ087704	EJ092615	EJ092660	EJ112473	EJ119438	EJ132451	
EDUCATIONAL FACILITIES	(10)	EJ092623	FJ082624	FJ082627	FJ082628	FJ109213	EJ125815	EJ135663	
	EJ158751	EJ172308	EJ172309						

EDUCATIONAL FACILITIES LABORATORIES	(1)	EJ146475							
*EDUCATIONAL FINANCE	(14)	EJC98535	EJ125815	EJ132451	EJ148069				
EDUCATIONAL FINANCE	(1)	EJ165851							
*EDUCATIONAL GAMES	(3)	EJ140160	EJ172447	EJ183644					
EDUCATIONAL INNOVATION	(3)	EJ094607	EJ152301	EJ170765					
*EDUCATIONAL NEEDS	(4)	EJ113773	EJ173090	EJ178800	EJ186018				
EDUCATIONAL NEEDS	(5)	EJC89428	EJC98235	EJ117014	EJ170413	EJ180934			
*EDUCATIONAL OBJECTIVES	(2)	EJC98235	EJ156783						
EDUCATIONAL OBJECTIVES	(3)	EJ114971	EJ180934	EJ181444					
*EDUCATIONAL PARKS	(1)	EJ155021							
*EDUCATIONAL PHILOSOPHY	(1)	EJ136634							
*EDUCATIONAL PLANNING	(1)	EJ082628							
EDUCATIONAL PLANNING	(3)	EJ082624	EJ165858	EJ178800					
*EDUCATIONAL PRACTICE	(1)	EJ159765							
EDUCATIONAL PRINCIPLES	(1)	EJ136634							
*EDUCATIONAL PROBLEMS	(1)	EJC98911							
EDUCATIONAL PROGRAMS	(1)	EJ108693							
*EDUCATIONAL RESEARCH	(1)	EJ120477							
EDUCATIONAL RESEARCH	(1)	EJ166649							
EDUCATIONAL RESOURCES	(1)	EJC90137							
*EDUCATIONAL SPECIFICATIONS	(1)	EJ114203							
*EDUCATIONAL STRATEGIES	(1)	EJ179802							
EDUCATIONAL TECHNOLOGY	(2)	EJ146555	EJ181922						
EDUCATIONAL THEORIES	(1)	EJ162587							
*EDUCATIONAL TRENDS	(1)	EJ136634							
*EFFECTIVE TEACHING	(1)	EJ120477							
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EFL	(4)	EJC99422	EJ155370	EJ158793	EJ180156				
*ELECTRICAL APPLIANCES	(1)	EJ146475							
ELECTRICAL APPLIANCES	(2)	FJ104234	EJ133552						
*ELECTRICAL OCCUPATIONS	(2)	EJ021954	EJ185457						
*ELECTRICAL SYSTEMS	(1)	EJ166018							
ELECTRICAL SYSTEMS	(14)	EJ022895	EJC34117	EJC76226	EJ094658	EJC99437	EJ117544	EJ117546	
	EJ124215	EJ125781	EJ148091	EJ155021	EJ158787	EJ167870	EJ182250		
	(9)	EJC60979	EJC78525	EJ125844	EJ148036	EJ148179	EJ150181	EJ158788	
	EJ165908	EJ185471							
*ELECTRIC BATTERIES	(3)	EJ020653	EJ156497	EJ185787					
ELECTRIC BATTERIES	(2)	EJ046435	EJ095090						
*ELECTRIC CIRCUITS	(2)	EJ051754	EJ158793						
ELECTRIC CIRCUITS	(2)	EJ047844	EJ185867						
*ELECTRICITY	(46)	EJ021954	EJ039451	FJ046435	FJ047847	EJ052355	EJ064038	EJ067227	
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	EJ114942	EJ123227	EJ124812	EJ125788	EJ126786	EJ127694	EJ128147	EJ130088	
	EJ132248	EJ134485	FJ162202	FJ171539	FJ173511	FJ178324	EJ179745	EJ182252	
	EJ182847	FJ185428	EJ185496	EJ185589	EJ185649	FJ185761	EJ185967		
ELECTRICITY	(30)	EJ020653	EJC20456	EJC62099	EJ062101	FJ064036	EJ170266	EJ173062	
	EJC61741	EJC83246	EJ091764	EJ095090	EJ109213	EJ109916	EJ112134	EJ116546	
	FJ116547	FJ123238	EJ126255	EJ126435	EJ128401	EJ130135	EJ133245	EJ133552	
	EJ136701	FJ145507	EJ169166	FJ185471	EJ185763	EJ185787	EJ186018		
ELECTRIC MOTORS	(3)	EJ047844	EJC78527	EJ095090					
ELECTRIC POWER GENERATORS	(2)	EJ185473	EJ185476						
*ELECTRIC POWER MONITOR	(1)	EJ104169							
ELECTRIC POWER RESEARCH INSTITUTE	(1)	FJ126255							
*ELECTRIC VEHICLES	(1)	EJ095090							
*ELECTROMECHANICAL TECHNOLOGY	(4)	EJC70510	EJ095090	EJ109916	EJ173090				
ELECTROMECHANICAL TECHNOLOGY	(1)	EJC39219							
ELECTRONIC CONTROL	(1)	FJ141215							
*ELECTRONIC EQUIPMENT	(1)	EJC91754							
ELECTRONIC EQUIPMENT	(1)	EJ162207							
*ELECTRONICS	(1)	EJ152242							
ELECTRONICS	(1)	EJ169166							
*ELEMENTARY EDUCATION	(9)	EJ126663	FJ157063	EJ160941	EJ161108	EJ166629	FJ169102	EJ169103	
	EJ176183	FJ180159							
ELEMENTARY EDUCATION	(26)	EJ094590	EJ124206	EJ127684	EJ129334	FJ129376	FJ132540	EJ134485	
	FJ134486	FJ136701	FJ141215	EJ150212	EJ152613	FJ155021	FJ158787	EJ162251	
	EJ166649	EJ168491	EJ168449	FJ169751	FJ178611	EJ180157	EJ180158	EJ180160	
	EJ180164	EJ183177	EJ183229						
*ELEMENTARY SCHOOL MATHEMATICS	(1)	FJ151428							
ELEMENTARY SCHOOL MATHEMATICS	(1)	FJ124738							
ELEMENTARY SCHOOLS	(18)	EJC89409	EJ091228	EJ092636	EJ092648	FJ092640	EJ102523	EJ105869	

	EJ109890							
*ELEMENTARY SCHOOL SCIENCE	(15)	EJ055024	EJ074902	EJ091784	EJ118277	EJ136701	EJ150707	EJ152031
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ELEMENTARY SCHOOL SCIENCE	(15)	EJ098570	EJ113138	EJ126663	EJ180159	EJ182292		
*ELEMENTARY SCHOOL STUDENTS	(11)	EJ182292						
*ELEMENTARY SECONDARY EDUCATION	(11)	EJ191422						
ELEMENTARY SECONDARY EDUCATION	(53)	EJ107280	EJ109213	EJ110960	EJ112473	EJ114209	EJ117544	EJ117569
	EJ124116	EJ124738	EJ125815	EJ128322	EJ132451	EJ133552	EJ134431	EJ134432
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	EJ151928	EJ152031	EJ152301	EJ153621	EJ153634	EJ153653	EJ155117	EJ158751
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*EMERGENCY PROGRAMS	(2)	EJ089423	EJ181922					
EMERGENCY PROGRAMS	(1)	EJ089438						
*EMERGING OCCUPATIONS	(1)	EJ178800						
EMPLOYERS	(1)	EJ105352						
*EMPLOYMENT	(4)	EJ109540	EJ129972	EJ129974	EJ182303			
EMPLOYMENT	(1)	EJ119441						
*EMPLOYMENT EXPERIENCE	(1)	EJ155810						
*EMPLOYMENT LEVEL	(1)	EJ102163						
EMPLOYMENT LEVEL	(1)	EJ102162						
*EMPLOYMENT OPPORTUNITIES	(2)	EJ045785	EJ167272					
EMPLOYMENT OPPORTUNITIES	(2)	EJ113773	EJ142490					
EMPLOYMENT POTENTIAL	(1)	EJ178800						
*EMPLOYMENT PROJECTIONS	(1)	EJ142450						
EMPLOYMENT PROJECTIONS	(1)	EJ167272						
EMPLOYMENT QUALIFICATIONS	(2)	EJ113773	EJ155810					
*EMPLOYMENT STATISTICS	(4)	EJ045791	EJ102162	EJ102163	EJ103650			
*EMPLOYMENT TRENDS	(3)	EJ045785	EJ102262	EJ103650				
EMPLOYMENT TRENDS	(1)	EJ045791						
*ENCAPSULATED FACILITIES	(1)	EJ165858						
*ENERGY	(499)	EJ001325	EJ004400	EJ015034	EJ017204	EJ020653	EJ020658	EJ021954
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EJ152150	EJ155922	EJ154459	EJ154464	EJ156337	EJ172300	EJ172301	EJ172302
EJ172305	EJ172306	EJ172970	EJ174482	EJ179347	EJ179745	EJ179843	EJ179844
EJ180155	EJ180157	EJ181159	EJ180177	EJ180198	EJ180199	EJ180199	EJ180199
EJ182552	EJ184524	EJ185473	EJ185475	EJ185484	EJ185472	EJ185474	EJ185475
EJ185447	EJ185957						

ENERGY AND HANS ENVIRONMENT PROJECT

ENERGY CONSERVATION

(11)	EJ116630						
(367)	EJ082623	EJ082624	EJ082625	EJ082626	EJ082627	EJ082628	EJ082629
EJ092630	EJ092631	EJ092632	EJ092633	EJ092634	EJ092635	EJ092636	EJ092637
EJ094583	EJ094584	EJ094585	EJ094586	EJ094587	EJ094588	EJ094589	EJ094590
EJ098911	EJ098912	EJ098913	EJ098914	EJ098915	EJ098916	EJ098917	EJ098918
EJ102526	EJ102527	EJ102528	EJ102529	EJ102530	EJ102531	EJ102532	EJ102533
EJ104168	EJ104169	EJ104170	EJ104171	EJ104172	EJ104173	EJ104174	EJ104175
EJ105890	EJ105891	EJ105892	EJ105893	EJ105894	EJ105895	EJ105896	EJ105897
EJ109213	EJ109214	EJ109215	EJ109216	EJ109217	EJ109218	EJ109219	EJ109220
EJ113547	EJ113548	EJ113549	EJ113550	EJ113551	EJ113552	EJ113553	EJ113554
EJ114904	EJ114905	EJ114906	EJ114907	EJ114908	EJ114909	EJ114910	EJ114911
EJ117544	EJ117545	EJ117546	EJ117547	EJ117548	EJ117549	EJ117550	EJ117551
EJ119559	EJ121567	EJ121568	EJ121569	EJ121570	EJ121571	EJ121572	EJ121573
EJ123410	EJ123411	EJ123412	EJ123413	EJ123414	EJ123415	EJ123416	EJ123417
EJ125781	EJ125782	EJ125783	EJ125784	EJ125785	EJ125786	EJ125787	EJ125788
EJ128424	EJ128425	EJ128426	EJ128427	EJ128428	EJ128429	EJ128430	EJ128431
EJ132451	EJ132452	EJ132453	EJ132454	EJ132455	EJ132456	EJ132457	EJ132458
EJ134492	EJ134493	EJ134494	EJ134495	EJ134496	EJ134497	EJ134498	EJ134499
EJ141215	EJ141216	EJ141217	EJ141218	EJ141219	EJ141220	EJ141221	EJ141222
EJ148028	EJ148029	EJ148030	EJ148031	EJ148032	EJ148033	EJ148034	EJ148035
EJ150181	EJ150182	EJ150183	EJ150184	EJ150185	EJ150186	EJ150187	EJ150188
EJ151328	EJ151329	EJ151330	EJ151331	EJ151332	EJ151333	EJ151334	EJ151335
EJ153632	EJ153633	EJ153634	EJ153635	EJ153636	EJ153637	EJ153638	EJ153639
EJ157028	EJ157029	EJ157030	EJ157031	EJ157032	EJ157033	EJ157034	EJ157035
EJ158787	EJ158788	EJ158789	EJ158790	EJ158791	EJ158792	EJ158793	EJ158794
EJ160941	EJ160942	EJ160943	EJ160944	EJ160945	EJ160946	EJ160947	EJ160948
EJ162586	EJ162587	EJ162588	EJ162589	EJ162590	EJ162591	EJ162592	EJ162593
EJ165844	EJ165845	EJ165846	EJ165847	EJ165848	EJ165849	EJ165850	EJ165851
EJ166629	EJ166630	EJ166631	EJ166632	EJ166633	EJ166634	EJ166635	EJ166636
EJ168506	EJ168507	EJ168508	EJ168509	EJ168510	EJ168511	EJ168512	EJ168513
EJ171062	EJ171063	EJ171064	EJ171065	EJ171066	EJ171067	EJ171068	EJ171069
EJ172609	EJ172610	EJ172611	EJ172612	EJ172613	EJ172614	EJ172615	EJ172616
EJ175842	EJ175843	EJ175844	EJ175845	EJ175846	EJ175847	EJ175848	EJ175849
EJ180143	EJ180144	EJ180145	EJ180146	EJ180147	EJ180148	EJ180149	EJ180150
EJ180189	EJ180190	EJ180191	EJ180192	EJ180193	EJ180194	EJ180195	EJ180196
EJ181471	EJ181472	EJ181473	EJ181474	EJ181475	EJ181476	EJ181477	EJ181478
EJ183178	EJ183179	EJ183180	EJ183181	EJ183182	EJ183183	EJ183184	EJ183185
EJ184525	EJ184526	EJ184527	EJ184528	EJ184529	EJ184530	EJ184531	EJ184532
EJ185517	EJ185518	EJ185519	EJ185520	EJ185521	EJ185522	EJ185523	EJ185524
EJ185447	EJ185448	EJ185449	EJ185450	EJ185451	EJ185452	EJ185453	EJ185454

ENERGY CONSERVATION

(90)	EJ092648	EJ092649	EJ092650	EJ092651	EJ092652	EJ092653	EJ092654
EJ092730	EJ092731	EJ092732	EJ092733	EJ092734	EJ092735	EJ092736	EJ092737
EJ116630	EJ116631	EJ116632	EJ116633	EJ116634	EJ116635	EJ116636	EJ116637
EJ123231	EJ123232	EJ123233	EJ123234	EJ123235	EJ123236	EJ123237	EJ123238
EJ124980	EJ124981	EJ124982	EJ124983	EJ124984	EJ124985	EJ124986	EJ124987
EJ130674	EJ130675	EJ130676	EJ130677	EJ130678	EJ130679	EJ130680	EJ130681
EJ152301	EJ152302	EJ152303	EJ152304	EJ152305	EJ152306	EJ152307	EJ152308
EJ173090	EJ173091	EJ173092	EJ173093	EJ173094	EJ173095	EJ173096	EJ173097
EJ182148	EJ182149	EJ182150	EJ182151	EJ182152	EJ182153	EJ182154	EJ182155
EJ185441	EJ185442	EJ185443	EJ185444	EJ185445	EJ185446	EJ185447	EJ185448
EJ185644	EJ185645	EJ185646	EJ185647	EJ185648	EJ185649	EJ185650	EJ185651

ENERGY CONSERVATION TECHNOLOGY

ENERGY CONSUMPTION

ENERGY CONSUMPTION

ENERGY CONVERSION

ENERGY CRISIS

ENERGY CRISIS

ENERGY EDUCATION

ENERGY EFFICIENCY

ENERGY INSTITUTE

ENERGY POLICY

ENERGY POLICY PROJECT (FOKU FOUNDATION)

ENERGY PRODUCTION

ENERGY RECOVERY WHEEL

ENERGY RELATED INDUSTRIES

ENERGY REQUIREMENTS

ENERGY REQUIREMENTS

ENERGY RESEARCH AND DEVELOPMENT ADMIN

ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION

ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION

ENERGY SOURCES

ENERGY SOURCES

ENERGY TECHNOLOGY

ENERGY USE

ENGINEERING

ENGINEERING

ENGINEERING DRAWING

ENGINEERING EDUCATION

ENGINEERING EDUCATION

(11)	EJ172299						
(12)	EJ073062	EJ114401					
(11)	EJ086827						
(11)	EJ026122						
(13)	EJ088793	EJ090177	EJ091677	EJ094607	EJ094508	EJ096797	EJ098137
(16)	EJ090900	EJ091775	EJ094567	EJ094613	EJ094535	EJ124735	
(17)	EJ180155	EJ180156	EJ180157	EJ180158	EJ180159	EJ180160	EJ185957
(11)	EJ119459						
(11)	EJ090235						
(11)	EJ150547						
(11)	EJ086827						
(11)	EJ160822						
(11)	EJ078525						
(11)	EJ178900						
(12)	EJ070758	EJ095282					
(13)	EJ088334	EJ088335	EJ088336	EJ088337	EJ090084	EJ094491	EJ094682
(11)	EJ079556						
(13)	EJ117801	EJ135134	EJ172749				
(16)	EJ090132	EJ116504	EJ123337	EJ126200	EJ147621	EJ172300	
(12)	EJ100022	EJ169166					
(13)	EJ173090	EJ178844	EJ184512				
(14)	EJ164166	EJ173090	EJ179800	EJ194512			
(11)	EJ106340						
(11)	EJ151866						
(13)	EJ104940	EJ147162	EJ185476				
(11)	EJ184515						
(16)	EJ100132	EJ121415	EJ121417	EJ121428	EJ147162	EJ151866	
(11)	EJ086824						

*ENGINEERING TECHNICIANS	(1)	EJ117614						
*ENGINEERING TECHNOLOGY	(6)	EJ084411	EJ102560	EJ113773	EJ126691	EJ182647	EJ186518	
ENGINEERING TECHNOLOGY	(1)	EJC96886						
*ENGINEERS	(1)	EJ110911						
ENGINEERS	(1)	EJ103650						
*ENGINES	(3)	EJC15034	EJ053614	EJ185869				
ENGINES	(3)	EJC53618	EJC88383	EJ091676				
ENGLAND	(1)	EJ104104						
ENRICHMENT ACTIVITIES	(1)	EJ130210						
ENROLLMENT INFLUENCES	(1)	EJ172303						
ENROLLMENT TRENDS	(1)	EJ155922						
*ENTOMOLOGY	(1)	EJC92419						
ENTROPY	(1)	EJC68799						
*ENVIRONMENT	(64)	EJC23386	EJC29621	EJ029732	EJC33222	EJ074117	EJ037159	EJ337160
		EJ037833	EJ038219	EJ039226	EJ042535	EJ042540	EJ043296	EJ068746
		EJ074463	EJ074475	EJ074478	EJC82039	EJC83311	EJC41676	EJC91677
		EJ045155	EJC95282	EJC98142	EJ100026	EJ100136	EJ101639	EJ104901
		EJ116542	EJ116544	EJ116546	EJ116547	EJ116548	EJ116549	EJ118242
		EJ119959	EJ122203	EJ123213	EJ126812	EJ126843	EJ126831	EJ128189
		EJ128197	EJ128199	EJ128200	EJ128201	EJ128401	EJ130114	EJ130164
		EJ136680	EJ136681	EJ136682	EJ147098	EJ152100	EJ155810	EJ159464
		EJ166537	EJ170625	EJ192303	EJ195865	EJ195867	EJ195953	EJ196299
ENVIRONMENT	(54)	EJ040884	EJ043297	EJ072970	EJ074471	EJ075372	EJ076123	EJ076136
		EJC77726	EJ082034	EJ082036	EJ083362	EJ083418	EJ086823	EJ086827
		EJ085523	EJ090132	EJ095084	EJ095087	EJ095130	EJ095150	EJ095150
		EJ096797	EJ096798	EJ096799	EJ096800	EJ096801	EJ096802	EJ096803
		EJ106422	EJ106423	EJ106424	EJ106425	EJ106426	EJ106427	EJ106428
		EJ126786	EJ133248	EJ133249	EJ133250	EJ133251	EJ133252	EJ133253
		EJ147064	EJ147065	EJ147066	EJ147067	EJ147068	EJ147069	EJ147070
*ENVIRONMENTAL CRITERIA	(2)	EJ016599	EJ088335					
ENVIRONMENTAL CRITERIA	(5)	EJ094555	EJC96827	EJ126660	EJ163196	EJ165473		
*ENVIRONMENTAL EDUCATION	(103)	EJ016599	EJ017116	EJ017209	EJ045991	EJ051742	EJ051743	EJ053617
		EJC68014	EJ084803	EJC68810	EJ074471	EJ074902	EJ076123	EJ076414
		EJC80341	EJ082036	EJ082038	EJ083248	EJ083312	EJ083418	EJ083418
		EJ086628	EJ086629	EJ086630	EJ086631	EJ086632	EJ086633	EJ086634
		EJ086635	EJ086636	EJ086637	EJ086638	EJ086639	EJ086640	EJ086641
		EJ086642	EJ086643	EJ086644	EJ086645	EJ086646	EJ086647	EJ086648
		EJ086649	EJ086650	EJ086651	EJ086652	EJ086653	EJ086654	EJ086655
		EJ101401	EJ101402	EJ101403	EJ101404	EJ101405	EJ101406	EJ101407
		EJ111455	EJ111456	EJ111457	EJ111458	EJ111459	EJ111460	EJ111461
		EJ123231	EJ123232	EJ123233	EJ123234	EJ123235	EJ123236	EJ123237
		EJ130210	EJ131428	EJ131429	EJ131430	EJ131431	EJ131432	EJ131433
		EJ154214	EJ161108	EJ162910	EJ163051	EJ166625	EJ166626	EJ166627
		EJ170763	EJ170764	EJ170765	EJ170766	EJ170767	EJ170768	EJ170769
		EJ198662	EJ198663	EJ198664	EJ198665	EJ198666	EJ198667	EJ198668
ENVIRONMENTAL EDUCATION	(68)	EJ037833	EJ038219	EJ039226	EJ042535	EJ042540	EJ043296	EJ068746
		EJ074463	EJ074475	EJ074478	EJ074479	EJ074480	EJ074481	EJ074482
		EJ096797	EJ096798	EJ096799	EJ096800	EJ096801	EJ096802	EJ096803
		EJ106422	EJ106423	EJ106424	EJ106425	EJ106426	EJ106427	EJ106428
		EJ126786	EJ126787	EJ126788	EJ126789	EJ126790	EJ126791	EJ126792
		EJ147064	EJ147065	EJ147066	EJ147067	EJ147068	EJ147069	EJ147070
		EJ163196	EJ163197	EJ163198	EJ163199	EJ163200	EJ163201	EJ163202
		EJ182647	EJ182648	EJ182649	EJ182650	EJ182651	EJ182652	EJ182653
		EJ200026	EJ200027	EJ200028	EJ200029	EJ200030	EJ200031	EJ200032
		EJ218189	EJ218190	EJ218191	EJ218192	EJ218193	EJ218194	EJ218195
		EJ236812	EJ236813	EJ236814	EJ236815	EJ236816	EJ236817	EJ236818
		EJ255922	EJ255923	EJ255924	EJ255925	EJ255926	EJ255927	EJ255928
		EJ274098	EJ274099	EJ274100	EJ274101	EJ274102	EJ274103	EJ274104
		EJ292303	EJ292304	EJ292305	EJ292306	EJ292307	EJ292308	EJ292309
		EJ310639	EJ310640	EJ310641	EJ310642	EJ310643	EJ310644	EJ310645
		EJ328189	EJ328190	EJ328191	EJ328192	EJ328193	EJ328194	EJ328195
		EJ346823	EJ346824	EJ346825	EJ346826	EJ346827	EJ346828	EJ346829
		EJ365130	EJ365131	EJ365132	EJ365133	EJ365134	EJ365135	EJ365136
		EJ383418	EJ383419	EJ383420	EJ383421	EJ383422	EJ383423	EJ383424
		EJ401639	EJ401640	EJ401641	EJ401642	EJ401643	EJ401644	EJ401645
		EJ419959	EJ419960	EJ419961	EJ419962	EJ419963	EJ419964	EJ419965
		EJ438189	EJ438190	EJ438191	EJ438192	EJ438193	EJ438194	EJ438195
		EJ456473	EJ456474	EJ456475	EJ456476	EJ456477	EJ456478	EJ456479
		EJ474698	EJ474699	EJ474700	EJ474701	EJ474702	EJ474703	EJ474704
		EJ492970	EJ492971	EJ492972	EJ492973	EJ492974	EJ492975	EJ492976
		EJ511150	EJ511151	EJ511152	EJ511153	EJ511154	EJ511155	EJ511156
		EJ529732	EJ529733	EJ529734	EJ529735	EJ529736	EJ529737	EJ529738
		EJ547998	EJ547999	EJ548000	EJ548001	EJ548002	EJ548003	EJ548004
		EJ566299	EJ566300	EJ566301	EJ566302	EJ566303	EJ566304	EJ566305
		EJ584644	EJ584645	EJ584646	EJ584647	EJ584648	EJ584649	EJ584650
		EJ602970	EJ602971	EJ602972	EJ602973	EJ602974	EJ602975	EJ602976
		EJ621150	EJ621151	EJ621152	EJ621153	EJ621154	EJ621155	EJ621156
		EJ639226	EJ639227	EJ639228	EJ639229	EJ639230	EJ639231	EJ639232
		EJ657447	EJ657448	EJ657449	EJ657450	EJ657451	EJ657452	EJ657453
		EJ675643	EJ675644	EJ675645	EJ675646	EJ675647	EJ675648	EJ675649
		EJ693865	EJ693866	EJ693867	EJ693868	EJ693869	EJ693870	EJ693871
		EJ712039	EJ712040	EJ712041	EJ712042	EJ712043	EJ712044	EJ712045
		EJ730210	EJ730211	EJ730212	EJ730213	EJ730214	EJ730215	EJ730216
		EJ748428	EJ748429	EJ748430	EJ748431	EJ748432	EJ748433	EJ748434
		EJ766625	EJ766626	EJ766627	EJ766628	EJ766629	EJ766630	EJ766631
		EJ784823	EJ784824	EJ784825	EJ784826	EJ784827	EJ784828	EJ784829
		EJ803051	EJ803052	EJ803053	EJ803054	EJ803055	EJ803056	EJ803057
		EJ821230	EJ821231	EJ821232	EJ821233	EJ821234	EJ821235	EJ821236
		EJ839422	EJ839423	EJ839424	EJ839425	EJ839426	EJ839427	EJ839428
		EJ857643	EJ857644	EJ857645	EJ857646	EJ857647	EJ857648	EJ857649
		EJ875865	EJ875866	EJ875867	EJ875868	EJ875869	EJ875870	EJ875871
		EJ894099	EJ894100	EJ894101	EJ894102	EJ894103	EJ894104	EJ894105
		EJ912299	EJ912300	EJ912301	EJ912302	EJ912303	EJ912304	EJ912305
		EJ930542	EJ930543	EJ930544	EJ930545	EJ930546	EJ930547	EJ930548
		EJ948746	EJ948747	EJ948748	EJ948749	EJ948750	EJ948751	EJ948752
		EJ966963	EJ966964	EJ966965	EJ966966	EJ966967	EJ966968	EJ966969
		EJ985184	EJ985185	EJ985186	EJ985187	EJ985188	EJ985189	EJ985190
		EJ003418	EJ003419	EJ003420	EJ003421	EJ003422	EJ003423	EJ003424
		EJ021639	EJ021640	EJ021641	EJ021642	EJ021643	EJ021644	EJ021645
		EJ039865	EJ039866	EJ039867	EJ039868	EJ039869	EJ039870	EJ039871
		EJ058087	EJ058088	EJ058089	EJ058090	EJ058091	EJ058092	EJ058093
		EJ076305	EJ076306	EJ076307	EJ076308	EJ076309	EJ076310	EJ076311
		EJ094523	EJ094524	EJ094525	EJ094526	EJ094527	EJ094528	EJ094529
		EJ112746	EJ112747	EJ112748	EJ112749	EJ112750	EJ112751	EJ112752
		EJ130963	EJ130964	EJ130965	EJ130966	EJ130967	EJ130968	EJ130969
		EJ149184	EJ149185	EJ149186	EJ149187	EJ149188	EJ149189	EJ149190
		EJ167406	EJ167407	EJ167408	EJ167409	EJ167410	EJ167411	EJ167412
		EJ185627	EJ185628	EJ185629	EJ185630	EJ185631	EJ185632	EJ185633
		EJ203849	EJ203850	EJ203851	EJ203852	EJ203853	EJ203854	EJ203855
		EJ222070	EJ222071	EJ222072	EJ222073	EJ222074	EJ222075	EJ222076
		EJ240292	EJ240293	EJ240294	EJ240295	EJ240296	EJ240297	EJ240298
		EJ258513	EJ258514	EJ258515	EJ258516	EJ258517	EJ258518	EJ258519
		EJ276735	EJ276736	EJ276737	EJ276738	EJ276739	EJ276740	EJ276741
		EJ294956	EJ294957	EJ294958	EJ294959	EJ294960	EJ294961	EJ294962
		EJ313177	EJ313178	EJ313179	EJ313180	EJ313181	EJ313182	EJ313183
		EJ331399	EJ331400	EJ331401	EJ331402	EJ331403	EJ331404	EJ331405
		EJ349620	EJ349621	EJ349622	EJ349623	EJ349624	EJ349625	EJ349626
		EJ367842	EJ367843	EJ367844	EJ367845	EJ367846	EJ367847	EJ367848
		EJ386063	EJ386064	EJ386065	EJ386066	EJ386067	EJ386068	EJ386069
		EJ404284	EJ404285	EJ404286	EJ404287	EJ404288	EJ404289	EJ404290
		EJ422505	EJ422506	EJ422507	EJ422508	EJ422509	EJ422510	EJ422511
		EJ440726	EJ440727	EJ440728	EJ440729	EJ440730	EJ440731	EJ440732
		EJ458947	EJ458948	EJ458949	EJ458950	EJ458951	EJ458952	EJ458953
		EJ477168	EJ477169	EJ477170	EJ477171	EJ477172	EJ477173	EJ477174
		EJ495389	EJ495390	EJ495391	EJ495392	EJ495393	EJ495394	EJ495395
		EJ513610	EJ513611	EJ513612	EJ513613	EJ513614	EJ513615	EJ513616
		EJ531831	EJ531832	EJ531833	EJ531834	EJ531835	EJ531836	EJ531837
		EJ550052	EJ550053	EJ550054	EJ550055	EJ550056	EJ550057	EJ550058
		EJ568273	EJ568274	EJ568275	EJ568276	EJ568277	EJ568278	EJ568279
		EJ586494	EJ586495	EJ586496	EJ586497	EJ586498	EJ586499	EJ586500
		EJ604715	EJ604716	EJ604717	EJ604718	EJ604719	EJ604720	EJ604721
		EJ622936	EJ622937	EJ622938	EJ622939			

EVALUATION	(2)	EJ096403	EJ174274						
EVALUATION METHODS	(1)	EJ181455							
EVENING CLASSES	(1)	EJ098911							
EXHAUSTING	(1)	EJ073062							
*EXPECTANCY TABLES	(1)	EJ124974							
EXPECTATION	(1)	EJ176412							
EXPENDITURE FOR STUDENT	(1)	EJ136074							
*EXPENDITURES	(1)	EJC95183							
EXPENDITURES	(1)	EJ152048							
*EXPERIMENTAL PROGRAMS	(1)	EJ165233							
*EXPERIMENTS	(3)	EJ102523	EJ158793	EJ176312					
*EXTENSION EDUCATION	(2)	EJ180934	EJ181444						
EXTRACTIVE INDUSTRIES	(1)	EJ160822							
EXXON CORPORATION	(1)	EJ183644							
*FACILITIES	(2)	EJC83246	EJ166163						
FACILITIES	(2)	EJC92652	EJ099435						
*FACILITY CASE STUDIES	(1)	EJ110960							
FACILITY CASE STUDIES	(1)	EJ134432							
*FACILITY GUIDELINES	(6)	EJC84477	EJ124120	EJ129306	EJ129300	EJ146478	EJ175704		
FACILITY GUIDELINES	(4)	EJ092662	EJ105828	EJ150181	EJ167868				
*FACILITY IMPROVEMENT	(1)	EJ172301							
FACILITY IMPROVEMENT	(1)	EJ141481							
*FACILITY INVENTORY	(1)	EJ148079							
*FACILITY PLANNING	(8)	EJC70758	EJ082623	EJ082624	EJ082626	EJ082627	EJ082628	EJ102571	
FACILITY PLANNING	(7)	EJC52625	EJ069414	EJC92615	EJ092663	EJ099448	EJ114238	EJ172301	
*FACILITY REQUIREMENTS	(1)	EJC88518							
FACILITY UTILIZATION RESEARCH	(3)	EJ092728	EJ157025	EJ172303					
FAMILY INCOME	(1)	EJ184524							
FAMILY RESOURCES	(1)	EJ184524							
*FAMILY SOCIOLOGICAL UNIT)	(1)	EJ184524							
FAST TRACK SCHEDULING	(1)	EJ125844							
*FEASIBILITY STUDIES	(1)	EJ126651							
*FEDERAL AID	(4)	EJ069821	EJ124120	EJ139888	EJ148807				
FEDERAL ENERGY ADMINISTRATION	(2)	EJ123411	EJ123412						
*FEDERAL GOVERNMENT	(12)	EJ060275	EJ064832	EJ083362	EJ088523	EJ101462	EJ111506	EJ114918	
		EJ116502	EJ116509	EJ116538	EJ116541	EJ119124	EJ118137	EJ123225	EJ124925
		EJ129573	EJ150547	EJ155810	EJ165911	EJ182249	EJ183121	EJ185213	
FEDERAL GOVERNMENT	(10)	EJ064834	EJ072970	EJ072971	EJ095183	EJ107556	EJ116542	EJ124926	
		EJ126200	EJ155753	EJ182184					
*FEDERAL LEGISLATION	(8)	EJ069821	EJ099428	EJ090132	EJ164751	EJ121467	EJ128144	EJ147064	
FEDERAL LEGISLATION	(5)	EJ114211	EJ117895	EJ118260	EJ145753	EJ155828			
*FEDERAL POWER COMMISSION	(1)	EJ118134							
*FEDERAL PROGRAMS	(13)	EJ072970	EJ074123	EJ090137	EJ095183	EJ104746	EJ121467	EJ128260	
		EJ128201	EJ128424	EJ130135	EJ135072	EJ136861	EJ139888		
FEDERAL PROGRAMS	(9)	EJ055962	EJ069821	EJ072971	EJ123226	EJ123227	EJ135134	EJ147621	
		EJ178444	EJ180155						
*FEDERAL STATE RELATIONSHIP	(1)	EJ096903							
FEDERAL STATE RELATIONSHIP	(4)	EJC94427	EJ099438	EJ129972	EJ176213				
*FEEDBACK	(1)	EJ158784							
FEMALES	(1)	EJ159922							
FERTILIZERS	(1)	EJ121574							
FIELD CROPS	(1)	EJ086352							
*FIELD EXPERIENCE PROGRAMS	(1)	EJ175169							
FIELD EXPERIENCE PROGRAMS	(1)	EJ159393							
*FIELD INSTRUCTION	(1)	EJ179843							
*FIELD TRIPS	(2)	EJ150707	EJ179611						
*FILMS	(1)	EJ124779							
FILMS	(2)	EJ152242	EJ155780						
*FINANCIAL POLICY	(1)	EJ116509							
FINANCIAL POLICY	(2)	EJ116538	EJ163196						
FINANCIAL PROBLEMS	(1)	EJ184525							
*FINANCIAL SUPPORT	(2)	EJ116538	EJ118124						
FINANCIAL SUPPORT	(6)	EJ098535	EJ118137	EJ118261	EJ124827	EJ135134	EJ139888		
FISCAL YEAR 1977	(1)	EJ135134							
FISSION	(1)	EJ107854							
FLEXIBLE CLASSROOMS	(1)	EJ109219							

*FLEXIBLE FACILITIES	(13)	EJ153613	EJ165233	EJ183220					
FLEXIBLE FACILITIES	(15)	EJ094660	EJ151338	EJ164156	EJ165856	EJ167870			
*FLEXIBLE LIGHTING DESIGN	(16)	EJ084477	EJ105846	EJ117544	EJ132540	EJ159788	EJ167865		
FLOORING	(11)	EJ105869							
*FLOOR LAYERS	(11)	EJ105890							
FLORIDA	(12)	EJ112199	EJ163651						
*FLORIDA STATE MUSEUM	(11)	EJ150176							
FLORIDA STATE UNIVERSITY	(11)	EJ134068							
*FLUID POWER EDUCATION	(13)	EJ158326	EJ165476	EJ185649					
*FOOD	(16)	EJ078352	EJ098473	EJ131564	EJ149774	EJ151947	EJ185429		
FOOD	(17)	EJ037180	EJ086823	EJ106500	EJ133244	EJ152361	EJ155922	EJ185490	
*FOOD AND DRUG INSPECTORS	(11)	EJ079420							
*FOOD CONSUMPTION	(11)	EJ099473							
*FOOD HANDLING FACILITIES	(11)	EJ109234							
FOOD PROCESSING	(11)	EJ098473							
FOOD SCARCITY	(11)	EJ106502							
FORCE	(13)	EJ073696	EJ121363	EJ159793					
*FORD FOUNDATION	(11)	EJ111513							
FORD FOUNDATION	(11)	EJ104744							
*FORD FOUNDATION ENERGY POLICY PROJECT	(11)	EJ106422							
*FORD (GERALD)	(11)	EJ148807							
*FORD (GERALD H)	(11)	EJ116502							
*FOREIGN COUNTRIES	(12)	EJ166537	EJ195864						
FOREIGN COUNTRIES	(13)	EJ021944	EJ023377	EJ186019					
*FOREIGN POLICY	(11)	EJ067225							
FOREIGN POLICY	(11)	EJ106502							
*FOREIGN RELATIONS	(11)	EJ058278							
*FOSSIL FUELS	(12)	EJ114918	EJ116139						
FOUNDATION PROGRAMS	(11)	EJ116538							
*FOUR CORNERS AREA	(11)	EJ160822							
*FOUR DAY WEEK	(11)	EJ172203							
FPC	(11)	EJ118134							
*FRANCE	(11)	EJ137246							
*FRENCH	(11)	EJ114332							
*FUEL CELLS	(11)	EJ156697							
*FUEL CONSUMPTION	(182)	EJ082624	EJ082624	EJ082624	EJ082624	EJ082624	EJ082624	EJ082624	EJ082624
FUEL CONSUMPTION	(153)	EJ084413	EJ084413	EJ084413	EJ084413	EJ084413	EJ084413	EJ084413	EJ084413
		EJ131179	EJ131179	EJ131179	EJ131179	EJ131179	EJ131179	EJ131179	EJ131179
		EJ134492	EJ134492	EJ134492	EJ134492	EJ134492	EJ134492	EJ134492	EJ134492
		EJ165908	EJ165908	EJ165908	EJ165908	EJ165908	EJ165908	EJ165908	EJ165908
		EJ182192	EJ182192	EJ182192	EJ182192	EJ182192	EJ182192	EJ182192	EJ182192
*FUELS	(194)	EJ065433	EJ065433	EJ065433	EJ065433	EJ065433	EJ065433	EJ065433	EJ065433
FUELS	(159)	EJ021944	EJ021944	EJ021944	EJ021944	EJ021944	EJ021944	EJ021944	EJ021944
		EJ072227	EJ072227	EJ072227	EJ072227	EJ072227	EJ072227	EJ072227	EJ072227
		EJ084413	EJ084413	EJ084413	EJ084413	EJ084413	EJ084413	EJ084413	EJ084413
		EJ126839	EJ126839	EJ126839	EJ126839	EJ126839	EJ126839	EJ126839	EJ126839
		EJ140000	EJ140000	EJ140000	EJ140000	EJ140000	EJ140000	EJ140000	EJ140000
		EJ178314	EJ178314	EJ178314	EJ178314	EJ178314	EJ178314	EJ178314	EJ178314
		EJ185787	EJ185787	EJ185787	EJ185787	EJ185787	EJ185787	EJ185787	EJ185787
FUEL SHORTAGE	(11)	EJ089478							
*FUEL SHORTAGES	(11)	EJ089412							
*FUNDAMENTAL CONCEPTS	(13)	EJ069799	EJ162910	EJ163051					
*FUSION	(11)	EJ053620							
FUSION	(12)	EJ118261	EJ185544						
*FUSION REACTORS	(11)	EJ151866							
*FUTURES (OF SOCIETY)	(123)	EJ064463	EJ064463	EJ064463	EJ064463	EJ064463	EJ064463	EJ064463	EJ064463
		EJ064463	EJ064463	EJ064463	EJ064463	EJ064463	EJ064463	EJ064463	EJ064463
		EJ166140	EJ166140	EJ166140	EJ166140	EJ166140	EJ166140	EJ166140	EJ166140

FUTURES (OF SOCIETY)	(18)	EJ080763	EJ080227	EJ093491	EJ114966	EJ116592	EJ129974	EJ148774
	EJ158252	EJ169166	EJ170763	EJ178313	EJ178314	EJ180188	EJ181922	EJ182449
	EJ185471	EJ185476	EJ185495					
*GAMES	(2)	EJ087017	EJ190767					
GAMES	(1)	EJ188491						
*GAME THEORY	(1)	EJ097017						
*GENERAL EDUCATION	(1)	EJ126147						
*GENERAL SCIENCE	(1)	EJ033628						
GENERAL SCIENCE	(7)	EJ033627	EJ091784	EJ098570	EJ106478	EJ106479	EJ113296	EJ114905
GENERATORS	(1)	EJ07854						
GENETICS	(3)	EJ052149	EJ159404	EJ185489				
GEOGRAPHIC CONCEPTS	(1)	EJ176383						
*GEOGRAPHIC DISTRIBUTION	(2)	EJ093491	EJ192382					
*GEOGRAPHY	(2)	EJ152382	EJ186497					
GEOGRAPHY	(1)	EJ145507						
*GEOGRAPHY INSTRUCTION	(4)	EJ176629	EJ176383	EJ178408	EJ178411			
*GEOLOGY	(9)	EJ082036	EJ146140	EJ155744	EJ155749	EJ155753	EJ185396	EJ185405
	EJ185410	EJ185865						
GEOLOGY	(6)	EJ023376	EJ123411	EJ123412	EJ185401	EJ185416	EJ185420	
*GEOPHYSICS	(3)	EJ023376	EJ045124	EJ185401				
GEORGIA (ATLANTA)	(2)	EJ150211	EJ150212					
*GEOTHERMAL ENERGY	(1)	EJ124812						
GEOTHERMAL ENERGY	(2)	EJ106340	EJ111406					
*GEOTHERMAL POWER	(1)	EJ118144						
GLARE	(2)	EJ082628	EJ105948					
*GLOBAL APPROACH	(3)	EJ126897	EJ152301	EJ159459				
GLOBAL APPROACH	(1)	EJ106502						
*GOVERNING BOARDS	(1)	EJ131428						
GOVERNMENT (ADMINISTRATIVE BODY)	(3)	EJ092762	EJ040132	EJ096903				
GOVERNMENTAL STRUCTURE	(1)	EJ060275						
*GOVERNMENT EMPLOYEES	(1)	EJ155810						
*GOVERNMENT PUBLICATIONS	(1)	EJ098137						
*GOVERNMENT ROLE	(22)	EJ045126	EJ067225	EJ079426	EJ085515	EJ103650	EJ114418	EJ116509
	EJ116528	EJ116541	EJ116542	EJ118112	EJ118117	EJ118260	EJ124465	EJ148807
	EJ155753	EJ155828	EJ159459	EJ163196	EJ166537	EJ167249	EJ185416	
GOVERNMENT ROLE	(18)	EJ064872	EJ079423	EJ082038	EJ082243	EJ084885	EJ096903	EJ101539
	EJ105352	EJ119888	EJ121417	EJ131429	EJ140044	EJ167162	EJ176412	EJ180195
	EJ185410	EJ185420	EJ185426					
*GOVERNMENT SCHOOL RELATIONSHIP	(1)	EJ185413						
*GRADE 1	(1)	EJ190157						
GRADE 1	(1)	EJ161108						
GRADE 2	(1)	EJ161109						
*GRADUATE STUDENTS	(1)	EJ178295						
GRADUATE STUDY	(1)	EJ151866						
GRAPHS	(1)	EJ114901						
GREELEY ELEMENTARY SCHOOL	(1)	EJ153613						
*GREENHOUSES	(1)	EJ182150						
GROUP DISCUSSION	(1)	EJ156283						
*GUIDELINES	(1)	EJ171116	EJ084496	EJ102526	EJ124346	EJ132451	EJ134430	EJ153621
	EJ158766	EJ169169	EJ169107					
GUIDELINES	(6)	EJ088401	EJ092669	EJ109213	EJ141481	EJ150213	EJ170764	
*GUIDES	(2)	EJ087779	EJ102521					
GUIDES	(3)	EJ094491	EJ092730	EJ148076				
*GYMNASIUMS	(1)	EJ146492						
GYMNASIUMS	(3)	EJ105869	EJ146555	EJ167871				
*HAMPSHIRE COLLEGE	(1)	EJ167826						
HANDICAPPED	(1)	EJ146475						
*HANDICAPPED CHILDREN	(1)	EJ182400						
HARVARD UNIVERSITY	(1)	EJ132511						
*HEALTH	(1)	EJ096749						
HEALTH	(5)	EJ095193	EJ109840	EJ129972	EJ130265	EJ152150		
*HEALTH EDUCATION	(2)	EJ017116	EJ176444					
*HEALTH PROGRAMS	(1)	EJ055962						
*HEAT	(13)	EJ001325	EJ020644	EJ043133	EJ055024	EJ062199	EJ078525	EJ083246
	EJ113246	EJ114966	EJ136819	EJ145507	EJ178342	EJ185947		
HEAT	(24)	EJ015034	EJ027023	EJ029732	EJ035272	EJ084824	EJ084829	EJ091784
	EJ107984	EJ109954	EJ121600	EJ123410	EJ130004	EJ136823	EJ148429	EJ166697
	EJ165506	EJ172301	EJ172305	EJ172309	EJ176246	EJ176242	EJ176316	EJ180160
	EJ184525							
*HEATING	(43)	EJ074471	EJ076226	EJ087714	EJ089429	EJ092650	EJ092690	EJ094613
	EJ094600	EJ102523	EJ102580	EJ102611	EJ103117	EJ105828	EJ107494	EJ113138

	EJ113139	EJ114207	EJ124146	EJ125844	EJ127644	EJ129376	EJ129379	EJ134431
	EJ134442	EJ136668	EJ136823	EJ140750	EJ141717	EJ150709	EJ150210	EJ153629
	EJ153434	EJ160514	EJ165558	EJ167868	EJ167870	EJ176246	EJ180143	EJ180160
	EJ180163	EJ191451	EJ181471	EJ185557				
HEATING	(21)	EJ081791	EJ087769	EJ087779	EJ089419	EJ089421	EJ091228	EJ097881
	EJ105869	EJ109218	EJ130664	EJ131551	EJ132511	EJ134432	EJ136074	EJ136075
	EJ145883	EJ167233	EJ175642	EJ176620	EJ185224	EJ186516		
HEAT RECOVERY	(13)	EJ162611	EJ166091	EJ150209	EJ151338	EJ153613	EJ153629	EJ155021
	EJ157028	EJ158788	EJ165910	EJ167870	EJ169751	EJ183177		
HEAT RECOVERY	(5)	EJ157076	EJ158745	EJ159028	EJ169753	EJ173040		
HEAT RECOVERY SYSTEM	(1)	EJ104219						
HEAT RECOVERY SYSTEMS	(3)	EJ114207	EJ124216	EJ125844				
HEAT RECOVERY SYSTEMS	(2)	EJ074226	EJ089420					
HEAT STORAGE	(1)	EJ045128						
HEAVY METALS	(1)	EJ126631						
HIGHER EDUCATION	(13)	EJ102608	EJ107558	EJ117801	EJ114465	EJ124147	EJ136304	EJ138044
	EJ141441	EJ144429	EJ146445	EJ151866	EJ155376	EJ155780		
HIGHER EDUCATION	(86)	EJ016599	EJ094658	EJ098911	EJ106132	EJ105869	EJ114441	EJ114448
	EJ114442	EJ116475	EJ116486	EJ116610	EJ117546	EJ117569	EJ121326	EJ121423
	EJ123186	EJ123194	EJ124120	EJ124146	EJ125751	EJ125792	EJ136210	EJ136211
	EJ133389	EJ141440	EJ141215	EJ141217	EJ145424	EJ145507	EJ146476	EJ146784
	EJ148829	EJ151376	EJ150579	EJ150642	EJ152244	EJ153629	EJ155834	EJ157025
	EJ157028	EJ157076	EJ157414	EJ158745	EJ158793	EJ162202	EJ162207	EJ162208
	EJ162251	EJ162587	EJ162588	EJ162589	EJ162597	EJ164156	EJ164177	EJ165844
	EJ165864	EJ165906	EJ165910	EJ165911	EJ166575	EJ167626	EJ167869	EJ169753
	EJ169856	EJ170142	EJ170433	EJ171539	EJ175842	EJ176246	EJ176312	EJ178245
	EJ179413	EJ179608	EJ179745	EJ179843	EJ179857	EJ180143	EJ181444	EJ181446
	EJ181455	EJ181448	EJ183178	EJ183220	EJ184644	EJ185830	EJ186018	
HIGH INTENSITY DISCHARGE LIGHTING	(2)	EJ146488	EJ167871					
HIGH SCHOOL DESIGN	(1)	EJ160091						
HIGH SCHOOLS	(4)	EJ089412	EJ089413	EJ092600	EJ102523	EJ104525	EJ105894	
HIGH SCHOOL STUDENTS	(1)	EJ156283						
HISTORICAL REVIEWS	(1)	EJ145883						
HOME ECONOMICS	(2)	EJ172970	EJ184524					
HOME ECONOMICS EDUCATION	(2)	EJ172970	EJ172971					
HOME ECONOMICS EDUCATION	(1)	EJ139082						
HOME MANAGEMENT	(1)	EJ185957						
HOME MANAGEMENT	(1)	EJ178608						
HOUSING	(2)	EJ184143	EJ184516					
HOUSING	(3)	EJ114211	EJ123410	EJ135169				
HOUSING INDUSTRY	(1)	EJ178444						
HOUSING PATTERNS	(1)	EJ152046						
HUMAN ENGINEERING	(1)	EJ092662						
HUMANITIES	(1)	EJ121567						
HUMANIZATION	(1)	EJ152210						
HUMAN LIVING	(2)	EJ113543						
HUMAN LIVING	(1)	EJ170763						
HUMAN RESOURCES	(1)	EJ140262						
HYDRAULICS	(1)	EJ171426						
HYDROELECTRIC POWER	(1)	EJ185476						
HYDROGEN	(3)	EJ067229	EJ116546	EJ158314				
HYDROGEN	(3)	EJ045127	EJ080340	EJ104752				
HYDROGEN GENERATION PROCESSES	(1)	EJ104752						
HYDROGEN PRODUCTION	(1)	EJ080829						
HYDROLOGY	(1)	EJ185405						
ILLINOIS	(2)	EJ162910	EJ175169					
ILLINOIS (HINSUAL)	(1)	EJ183228						
ILLUMINATION LEVELS	(15)	EJ094477	EJ092660	EJ092667	EJ094643	EJ105840	EJ114216	EJ114736
	EJ117544	EJ117546	EJ132540	EJ150181	EJ164177	EJ165910	EJ167865	EJ167871
ILLUMINATION LEVELS	(17)	EJ076226	EJ082128	EJ087779	EJ092660	EJ104116	EJ146488	EJ157028
	EJ158784	EJ164795	EJ164178	EJ165405	EJ169176	EJ183178		
ILLUSTRATIONS	(1)	EJ164103						
IMPROVEMENT	(1)	EJ150181						
INCENTIVE SYSTEMS	(2)	EJ171613	EJ184524					
INCINERATORS	(1)	EJ114054						
INCOME	(1)	EJ124974						
INDEXES (LOCATORS)	(1)	EJ104620						
INDIA	(1)	EJ140262						
INDIANS	(1)	EJ090721						
INDUSTRIAL ARTS	(3)	EJ160654	EJ171062	EJ184512				
INDUSTRIAL ARTS	(4)	EJ026172	EJ147821	EJ158252	EJ178844	EJ184515	EJ184516	
INDUSTRIAL ARTS TEACHERS	(1)	EJ158252						
INDUSTRIAL EDUCATION	(1)	EJ178839						
INDUSTRIAL EDUCATION	(4)	EJ158252	EJ184512	EJ184515	EJ184516			

*INDUSTRIALIZATION	(11)	FJ136654							
INDUSTRIALIZATION	(21)	FJ079425	FJ136664						
*INDUSTRIAL PERSONNEL	(11)	FJ142450							
INDUSTRIAL STRUCTURE	(11)	FJ044880							
*INDUSTRIAL TECHNOLOGY	(18)	FJ051743	FJ058862	FJ090084	FJ046888	FJ136654	FJ136660	FJ136660	
INDUSTRIAL TECHNOLOGY	(6)	FJ119952	FJ123410	FJ136671	FJ136677	FJ142450	FJ178800		
*INDUSTRY	(19)	FJ033225	FJ045124	FJ080343	FJ049846	FJ119880	FJ179973	FJ165221	
INDUSTRY	(14)	FJ023388	FJ083248	FJ088518	FJ106479	FJ104960	FJ114841	FJ126295	
	(14)	FJ142450	FJ147048	FJ150370	FJ143444	FJ145410	FJ145424	FJ145425	
*INFLATION	(11)	FJ090800							
*INFORMATION CENTERS	(11)	FJ092857							
*INFORMATION DISSEMINATION	(11)	FJ176183							
INFORMATION DISSEMINATION	(11)	FJ118124							
*INFORMATION RETRIEVAL	(11)	FJ179523							
INFORMATION RETRIEVAL	(11)	FJ134764							
*INFORMATION SOURCES	(15)	FJ104820	FJ123213	FJ144475	FJ150214	FJ173900			
INFORMATION SOURCES	(11)	FJ178839							
INNOVATION	(11)	FJ114966							
*INPUT OUTPUT ANALYSIS	(11)	FJ092863							
INQUIRY TRAINING	(13)	FJ088582	FJ088601	FJ178611					
*INSERVICE TEACHER EDUCATION	(11)	FJ116830							
*INSTITUTIONAL ADMINISTRATION	(11)	FJ144929							
*INSTITUTIONAL FACILITIES	(11)	FJ141481							
*INSTITUTIONAL RESEARCH	(11)	FJ191455							
INSTITUTIONAL RESEARCH	(11)	FJ116509							
*INSTITUTIONAL ROLE	(11)	FJ136364							
INSTITUTIONAL ROLE	(11)	FJ124455							
*INSTRUCTION	(28)	FJ024074	FJ027039	FJ033627	FJ033628	FJ042699	FJ062494	FJ068012	
	(28)	FJ113290	FJ123194	FJ126740	FJ128288	FJ128305	FJ133389	FJ139408	FJ142504
	(28)	FJ145422	FJ145422	FJ151478	FJ164424	FJ176244	FJ176292	FJ176316	FJ178413
	(28)	FJ160014	FJ160157	FJ162292					
INSTRUCTION	(19)	FJ021944	FJ035024	FJ049799	FJ073682	FJ074902	FJ086872	FJ100132	
	(19)	FJ106477	FJ104984	FJ123194	FJ126782	FJ128404	FJ133268	FJ135637	
	(19)	FJ157414	FJ162910	FJ178294	FJ179744				
*INSTRUCTIONAL AIDS	(11)	FJ121426	FJ130247	FJ133268					
INSTRUCTIONAL AIDS	(11)	FJ124779							
*INSTRUCTIONAL FILMS	(11)	FJ124779	FJ132242	FJ135780					
*INSTRUCTIONAL MATERIALS	(29)	FJ074902	FJ086734	FJ090121	FJ098570	FJ124788	FJ133544	FJ133552	
	(29)	FJ140140	FJ140160	FJ140250	FJ145320	FJ148526	FJ150574	FJ152031	FJ155922
	(29)	FJ154742	FJ160541	FJ161168	FJ162939	FJ168449	FJ176312	FJ176383	FJ179749
	(29)	FJ174657	FJ180159						
INSTRUCTIONAL MATERIALS	(21)	FJ089326	FJ089326	FJ109954	FJ111454	FJ111454	FJ113148	FJ113139	
	(21)	FJ126843	FJ126887	FJ128463	FJ135072	FJ136810	FJ139082	FJ148253	FJ152242
	(21)	FJ157414	FJ163051	FJ166424	FJ179943	FJ180145	FJ195787		
*INSTRUCTIONAL MATERIALS CENTERS	(21)	FJ176183	FJ187284						
INSTRUCTIONAL MEDIA	(21)	FJ124779	FJ165233						
*INSTRUMENTATION	(21)	FJ119954	FJ170433						
*INSULATION	(13)	FJ114209	FJ142204	FJ162206					
INSULATION	(11)	FJ167232							
*INTEGRATED ACTIVITIES	(11)	FJ171062							
INTEGRATED CURRICULUM	(11)	FJ171062							
*INTELLECTUAL DISCIPLINES	(11)	FJ126147							
*INTERDEPENDENCE	(11)	FJ106502							
*INTERDISCIPLINARY APPROACH	(16)	FJ106449	FJ114971	FJ124738	FJ160051	FJ180159	FJ182149		
INTERDISCIPLINARY APPROACH	(13)	FJ119277	FJ136364	FJ178611					
*INTERINSTITUTIONAL COOPERATION	(12)	FJ094437	FJ176384						
*INTERIOR DESIGN	(13)	FJ092638	FJ142487	FJ170142					
INTERMEDIATE GRADES	(21)	FJ088601	FJ166649						
INTERNATIONAL CONGRESS ON SOLAR ENERGY	(11)	FJ081791							
*INTERNATIONAL EDUCATION	(11)	FJ152301							
INTERNATIONAL EDUCATION	(11)	FJ033627							
*INTERNATIONAL ORGANIZATIONS	(11)	FJ086874							
INTERNATIONAL ORGANIZATIONS	(12)	FJ155744	FJ180187						
*INTERNATIONAL PROGRAMS	(13)	FJ060529	FJ061005	FJ155744					
INTERNATIONAL PROGRAMS	(11)	FJ152148							
*INVESTMENT	(11)	FJ045125							
*ISANTI MINNESOTA JUNIOR HIGH SCHOOL	(11)	FJ158784							
ISTANBUL TECHNICAL UNIVERSITY	(11)	FJ162588							
*JOH DEVELOPMENT	(11)	FJ167232							

*JOB LAYOFF	(11)	EJ102162							
JOB LAYOFF	(11)	EJ102163							
JOB MARKET	(11)	EJ102262							
*JOB PLACEMENT	(11)	EJ112199							
JOB PLACEMENT	(11)	EJ167233							
JOURNALISM	(11)	EJ165786							
*JOURNALISM EDUCATION	(11)	EJ165786							
*JUNIOR COLLEGES	(17)	EJ172299	EJ172300	EJ172301	EJ172302	EJ172305	EJ172309	EJ185213	
JUNIOR COLLEGES	(19)	EJ150707	EJ167885	EJ167871					
JUNIOR HIGH SCHOOLS	(17)	EJ092690	EJ102523	EJ150210	EJ158785	EJ165912	EJ183228	EJ184515	
*JUNIOR HIGH SCHOOL STUDENTS	(11)	EJ172467							
JUNIOR HIGH SCHOOL STUDENTS	(11)	EJ106489							
KELP	(11)	EJ151847							
*KENT STATE UNIVERSITY	(11)	EJ171539							
*KINETICS	(11)	EJ060979							
KINETICS	(14)	EJ001325	EJ026122	EJ043133	EJ113164				
LABOR	(11)	EJ105869							
*LABORATORY EQUIPMENT	(14)	EJ095370	EJ117418	EJ121428	EJ130217	EJ172971	EJ176342		
LABORATORY EQUIPMENT	(12)	EJ051354	EJ133268						
*LABORATORY EXPERIMENTS	(14)	EJ023377	EJ098570	EJ121363	EJ178844				
LABORATORY EXPERIMENTS	(17)	EJ082615	EJ086713	EJ121356	EJ133364	EJ149829	EJ165578	EJ176312	
*LABORATORY PROCEDURES	(13)	EJ062494	EJ090121	EJ172971					
LABORATORY PROCEDURES	(11)	EJ098419							
LABORATORY SAFETY	(11)	EJ178844							
*LABORATORY TECHNIQUES	(11)	EJ174492							
LABORATORY TECHNIQUES	(11)	EJ195830							
*LABOR ECONOMICS	(11)	EJ090900							
LABOR ECONOMICS	(13)	EJ102162	EJ102163	EJ187303					
LABOR MARKET	(12)	EJ102162	EJ102163						
LABOR PROBLEMS	(12)	EJ102162	EJ102163						
*LABOR SUPPLY	(11)	EJ117014							
*LABOR UNIONS	(11)	EJ192303							
LABOR UNIONS	(11)	EJ090800							
LAND GRANT UNIVERSITIES	(11)	EJ124465							
LANDSCAPING	(11)	EJ150208							
*LAND USE	(14)	EJ155744	EJ160822	EJ163196	EJ180934				
LAND USE	(14)	EJ016509	EJ116542	EJ131429	EJ152382	EJ166537	EJ170772		
LANGUAGE ARTS	(11)	EJ106499							
*LASERS	(13)	EJ098383	EJ119963	EJ155599					
*LAWS	(11)	EJ096903							
*LAW SCHOOLS	(11)	EJ158795							
*LEARNING ACTIVITIES	(19) EJ179402	EJ096582 EJ179857	EJ114971	EJ135037	EJ139092	EJ160054	EJ162910	EJ165629	
LEARNING ACTIVITIES	(16)	EJ093638	EJ147088	EJ151928	EJ172609	EJ178611	EJ180159		
*LEGAL PROBLEMS	(11)	EJ123179							
*LEGISLATION	(15)	EJ098518	EJ090164	EJ104620	EJ116542	EJ119841			
LEGISLATION	(14) EJ185484	EJ088335 EJ185864	EJ090122	EJ101539	EJ116509	EJ118124	EJ118137	EJ183416	
*LEGISLATORS	(11)	EJ064832							
*LEISURE TIME	(11)	EJ113097							
LEISURE TIME	(11)	EJ170772							
*LESSON PLANS	(11)	EJ090643							
LIBRARY COLLECTIONS	(11)	EJ173991							
*LIBRARY COOPERATION	(11)	EJ126294							
LIBRARY FACILITIES	(11)	EJ148562							
*LIBRARY MATERIALS	(11)	EJ098142							
LIBRARY PLANNING	(11)	EJ191448							
*LIFE CYCLE COSTING	(13)	EJ092667	EJ115870	EJ162262					
LIFE CYCLE COSTING	(16)	EJ092662	EJ092668	EJ104129	EJ148036	EJ153634	EJ175892		
LIFE CYCLE COSTS	(11)	EJ092728							
*LIFE STYLE	(11)	EJ133244	EJ139082	EJ186524					
LIFE STYLE	(14)	EJ106500	EJ153210	EJ172971	EJ185494				
*LIGHT	(14)	EJ001325	EJ109954	EJ114736	EJ166575				
LIGHT	(11)	EJ052355							
*LIGHTING	(17) EJ117544	EJ076226 EJ121429	EJ082624	EJ084491	EJ099431	EJ092660	EJ105866	EJ114210	
			EJ125798	EJ125844	EJ132540	EJ134655	EJ148076	EJ150181	

LIGHTING	EJ165849	EJ167865						
*LIGHTING DESIGN	(17)	EJ072062	EJ089411	EJ089421	EJ089422	EJ097881	EJ168424	EJ185457
	(16)	EJ082626	EJ084491	EJ089422	EJ092657	EJ094587	EJ117546	EJ146486
	EJ146490	EJ146492	EJ150181	EJ157028	EJ157063	EJ165912	EJ167571	EJ181468
	EJ183225							
LIGHTING DESIGN	(9)	EJ073062	EJ084477	EJ087709	EJ089420	EJ102526	EJ121429	EJ125788
	EJ164177	EJ183296						
*LIGHTNING	(11)	EJ119942						
LITERATURE	(11)	EJ123213						
*LITERATURE REVIEWS	(12)	EJ098137	EJ117895					
LITERATURE REVIEWS	(12)	EJ098142	EJ140250					
*LIVING STANDARDS	(9)	EJ060277	EJ100136	EJ121415				
LIVING STANDARDS	(11)	EJ091677						
*LOAD DEMAND CONTROL	(11)	EJ104168						
LUNCH PROGRAMS	(11)	EJ109234						
MAB	(11)	EJ111458						
MAGNETIC FIELDS	(11)	EJ114738						
MAGNETIC STORAGE	(11)	EJ098583						
*MAGNETOHYDRODYNAMICS	(11)	EJ152847						
MAGNETS	(11)	EJ044234						
*MAINTENANCE	(12)	EJ094491	EJ092652					
MAINTENANCE	(13)	EJ141481	EJ144929	EJ185957				
*MANAGEMENT	(13)	EJ109234	EJ155370	EJ165221				
MANAGEMENT	(13)	EJ062099	EJ087017	EJ179862				
*MANAGEMENT EDUCATION	(11)	EJ181444						
*MANAGEMENT SYSTEMS	(12)	EJ164178	EJ185916					
MANAGEMENT SYSTEMS	(11)	EJ126431						
MAN AND THE BIOSPHERE	(11)	EJ111458						
MAN MACHINE SYSTEMS	(11)	EJ092668						
MANPOWER DEVELOPMENT	(11)	EJ124972						
*MANPOWER NEEDS	(12)	EJ045791	EJ109840					
MANPOWER NEEDS	(12)	EJ045785	EJ055962					
*MANPOWER UTILIZATION	(11)	EJ167232						
*MANUFACTURING	(12)	EJ091676	EJ105890					
MANUFACTURING	(13)	EJ061170	EJ083248	EJ185428				
*MANUFACTURING INDUSTRY	(11)	EJ090084						
MANUFACTURING INDUSTRY	(11)	EJ114735						
*MARINE BIOLOGY	(11)	EJ111515						
MARINE BIOLOGY	(11)	EJ174226						
MARINE FARMING	(11)	EJ151947						
*MARKETING	(11)	EJ044880						
MARYLAND (MONTGOMERY COUNTY)	(11)	EJ187644						
MASSACHUSETTS (WILLIAMSTOWN)	(11)	EJ164177						
*MASS MEDIA	(11)	EJ181922						
MASS MEDIA	(11)	EJ016599						
*MASS TRANSIT	(11)	EJ128189						
MATERIAL DEVELOPMENT	(11)	EJ084400						
*MATHEMATICAL APPLICATIONS	(12)	EJ133399	EJ135037					
MATHEMATICAL APPLICATIONS	(11)	EJ124738						
MATHEMATICAL MODELS	(12)	EJ092663	EJ123416					
*MATHEMATICS	(11)	EJ150642						
*MATHEMATICS EDUCATION	(12)	EJ124738	EJ133399					
MATHEMATICS EDUCATION	(13)	EJ135037	EJ151928	EJ182150				
*MATHEMATICS INSTRUCTION	(11)	EJ150642						
*MATTER	(11)	EJ016322						
*MEASUREMENT	(12)	EJ101599	EJ121356					
MEASUREMENT	(13)	EJ02337	EJ104104	EJ114332				
*MEASUREMENT INSTRUMENTS	(13)	EJ051754	EJ141217	EJ170433				
*MEASUREMENT TECHNIQUES	(11)	EJ148079						
*MECHANICAL EQUIPMENT	(15)	EJ078525	EJ087714	EJ092666	EJ136046	EJ150213		
MECHANICAL EQUIPMENT	(14)	EJ084496	EJ150209	EJ150211	EJ169753			
*MECHANICS (PHYSICS)	(13)	EJ073696	EJ121362	EJ123186				
MECHANICS (PHYSICS)	(13)	EJ123194	EJ176292	EJ185649				
*MEDICAL SCHOOLS	(11)	EJ157030						
*MEETINGS	(12)	EJ081791	EJ106500					
*MERCHANDISE INFORMATION	(16)	EJ078525	EJ102605	EJ105890	EJ129375	EJ129390	EJ144486	

MERCHANDISE INFORMATION	(3)	FJ092652	FJ092653	FJ129379					
*METABOLISM	(1)	FJ121326							
*METALS	(3)	FJ008400	FJ126631	FJ143467					
METALS	(3)	FJ111459	FJ136660	FJ136664					
*METEOROLOGY	(1)	FJ185491							
METEOROLOGY	(1)	FJ128305							
*METHANE GAS GENERATION	(1)	FJ178844							
*METHANOL	(1)	FJ091676							
*METRIC SYSTEM	(1)	FJ101599							
*METROPOLITAN AREAS	(1)	FJ094585							
MMD	(1)	FJ182847							
MICHIGAN	(1)	FJ112149							
*MICHIGAN STATE UNIVERSITY	(1)	FJ141217							
MICROBIOLOGY	(1)	FJ111503							
MICROSCOPES	(1)	FJ107918							
*MID APPALACHIA WHITE HOUSE CONFERENCE	(2)	FJ129972	FJ129973						
*MIDDLE EASTERN STUDIES	(1)	FJ138704							
MIDDLE SCHOOLS	(3)	FJ089412	FJ150211	FJ156283					
MIGRANT PROBLEMS	(1)	FJ105352							
MIGRANTS	(1)	FJ105352							
*MIGRANT TRANSPORTATION	(1)	FJ105352							
MILITARY SCIENCE	(1)	FJ185916							
*MILWAUKEE AREA TECHNICAL COLLEGE (SCOUTH CAMPUS)	(1)	FJ135663							
MINNEAPOLIS	(1)	FJ158324							
MINNESOTA	(2)	FJ080763	FJ130169						
*MINNESOTA (MINNEAPOLIS)	(1)	FJ164103							
*MINNESOTA (NORTHFIELD)	(1)	FJ183229							
*MINORITY GROUPS	(2)	FJ098721	FJ147162						
*MODELS	(5)	FJ023376	FJ113134	FJ123416	FJ162202	FJ170625			
MODELS	(7)	FJ023377	FJ174274	FJ178444	FJ179857	FJ182149	FJ184515	FJ184516	
MODULAR BOILERS	(1)	FJ094660							
*MODULAR BUILDING DESIGN	(3)	FJ094660	FJ109219	FJ183284					
MODULAR BUILDING DESIGN	(1)	FJ151338							
MORAL VALUES	(1)	FJ147088							
*MOTION	(1)	FJ121363							
MOTION	(3)	FJ023376	FJ047844	FJ074471					
*MOTOR VEHICLES	(6)	FJ046543	FJ095090	FJ123230	FJ128189	FJ158326	FJ185869		
MOTOR VEHICLES	(1)	FJ090084							
*MOVABLE PARTITIONS	(1)	FJ151338							
MOVABLE PARTITIONS	(1)	FJ164156							
*MUSEUMS	(2)	FJ150176	FJ180164						
NATIONAL ACADEMY OF SCIENCES	(4)	FJ074420	FJ094679	FJ098453	FJ185489				
NATIONAL BUREAU OF STANDARDS	(1)	FJ162590							
NATIONAL DEFENSE	(2)	FJ095193	FJ116538						
NATIONAL ENVIRONMENTAL DEVELOPMENT ASSOCIATION	(1)	FJ1-3463							
NATIONAL ENVIRONMENT POLICY ACT	(1)	FJ045992							
*NATIONAL PROGRAMS	(3)	FJ072971	FJ121467	FJ166538					
NATIONAL PROGRAMS	(1)	FJ070511							
*NATIONAL SCIENCE FOUNDATION	(3)	FJ090133	FJ098535	FJ104746					
NATIONAL SCIENCE FOUNDATION	(2)	FJ116538	FJ125124						
*NATIONAL SURVEYS	(5)	FJ094567	FJ112473	FJ123411	FJ123412	FJ153653			
NATIONAL SURVEYS	(1)	FJ181451							
*NATURAL RESOURCES	(125)	FJ008400	FJ016549	FJ029021	FJ037159	FJ037160	FJ042535	FJ044419	
		FJ045124	FJ045129	FJ051743	FJ060277	FJ061170	FJ061175	FJ064038	
		FJ067225	FJ069821	FJ070510	FJ070511	FJ072470	FJ072471	FJ077726	
		FJ080343	FJ082036	FJ083312	FJ086823	FJ086827	FJ087017	FJ088335	
		FJ088463	FJ088463	FJ096885	FJ096886	FJ100022	FJ100136	FJ1001461	
		FJ101463	FJ103117	FJ104744	FJ104751	FJ104752	FJ105880	FJ106340	
		FJ106479	FJ107892	FJ109901	FJ111454	FJ111459	FJ111513	FJ116542	
		FJ116504	FJ116508	FJ116539	FJ116541	FJ118134	FJ118260	FJ119955	
		FJ119954	FJ121415	FJ123177	FJ123178	FJ123179	FJ123212	FJ123229	
		FJ123411	FJ123412	FJ123413	FJ126436	FJ126556	FJ126887	FJ128465	
		FJ130018	FJ130169	FJ131424	FJ133244	FJ135072	FJ136634	FJ136654	
		FJ136667	FJ138704	FJ140262	FJ145507	FJ152150	FJ154218	FJ155749	
		FJ159765	FJ160822	FJ161097	FJ163196	FJ164941	FJ164947	FJ164166	
		FJ172515	FJ174306	FJ178314	FJ178324	FJ180190	FJ182847	FJ184525	
		FJ185424	FJ185425	FJ185426	FJ185429	FJ185471	FJ185484	FJ185493	
		FJ185495	FJ185727	FJ185857	FJ185864	FJ185947	FJ185953	FJ185953	
NATURAL RESOURCES	(106)	FJ017209	FJ034117	FJ037833	FJ043298	FJ044434	FJ052445	FJ053159	
		FJ042775	FJ040444	FJ040444	FJ044950	FJ047423	FJ047423	FJ080340	
		FJ083362	FJ086874	FJ088293	FJ088334	FJ088334	FJ088411	FJ088550	
		FJ090084	FJ090158	FJ091775	FJ091776	FJ094491	FJ094491	FJ094590	
		FJ095084	FJ095087	FJ095088	FJ095089	FJ096747	FJ096827	FJ098453	

EJ098473	EJ098583	EJ098721	EJ101462	EJ104620	EJ105184	EJ104898	EJ111503
EJ113097	EJ113138	EJ113178	EJ116542	EJ119841	EJ119891	EJ119952	EJ121417
EJ121506	EJ123203	EJ123230	EJ126472	EJ126660	EJ126839	EJ128200	EJ128219
EJ130265	EJ131478	EJ131679	EJ133389	EJ136660	EJ136664	EJ143444	EJ155753
EJ158316	EJ154454	EJ159464	EJ162939	EJ166532	EJ166629	EJ166635	EJ170625
EJ172609	EJ174274	EJ179313	EJ179861	EJ179862	EJ180158	EJ180153	EJ180154
EJ180187	EJ180199	EJ180934	EJ182148	EJ182149	EJ182150	EJ182249	EJ182250
EJ182252	EJ185401	EJ185405	EJ185410	EJ185416	EJ185420	EJ185421	EJ185473
EJ185517	EJ185767	EJ185952					

*NATURAL SCIENCES	(11)	EJ148853					
NATURAL SCIENCES	(11)	EJ145422					
NEBRASKA	(11)	EJ102560					
NEED GRATIFICATION	(11)	EJ105184					
*NEEDS	(12)	EJ079425	EJ088411				
NEEDS	(12)	EJ116453	EJ129973				
NEEDS ASSESSMENT	(11)	EJ181455					
NEW JERSEY	(11)	EJ151338					
*NEW JERSEY (WEST DEPTFORD)	(11)	EJ159765					
NEW MEXICO	(11)	EJ183644					
NEWSLETTERS	(11)	EJ069821					
*NEWS MEDIA	(11)	EJ183121					
NEWS MEDIA	(11)	EJ165766					
*NEWS REPORTING	(11)	EJ165766					
*NEWS WRITING	(11)	EJ165766					
NEW YORK	(11)	EJ162202					
NEW YORK CITY	(11)	EJ082627					
NEW YORK (NEW HYDE PARK)	(11)	EJ176075					
*NEW YORK (NEW YORK)	(11)	EJ180592					
NEW ZEALAND	(11)	EJ145507					
NINTH WORLD ENERGY CONFERENCE	(11)	EJ104901					
NOISE POLLUTION	(11)	EJ113181					
*NORTHERN STATES POWER COMPANY	(11)	EJ080763					
NSF	(12)	EJ116538	EJ135134				
*NUCLEAR ENERGY	(16)	EJ034117	EJ103650	EJ106480	EJ114737	EJ129219	EJ183644
NUCLEAR ENERGY	(12)	EJ161140	EJ182250				
NUCLEAR ENERGY COMMISSION	(11)	EJ090132					
NUCLEAR ENERGY OCCUPATIONS	(11)	EJ113773					
*NUCLEAR PHYSICS	(44)	EJ016322	EJ020656	EJ029021	EJ029219	EJ044734	EJ047847
		EJ052620	EJ058180	EJ060480	EJ064036	EJ075232	EJ085166
		EJ102262	EJ106480	EJ111501	EJ113773	EJ114922	EJ116539
		EJ114863	EJ121423	EJ123226	EJ126435	EJ126839	EJ128197
		EJ128404	EJ130136	EJ130265	EJ133248	EJ143444	EJ151866
		EJ161140	EJ180244	EJ185493	EJ185599	EJ185916	
NUCLEAR PHYSICS	(22)	EJ033225	EJ042535	EJ043297	EJ044414	EJ045441	EJ060524
		EJ046137	EJ049282	EJ104864	EJ119955	EJ123227	EJ124925
		EJ129219	EJ133244	EJ136467	EJ155780	EJ178245	EJ185865
*NUCLEAR POWER	(17)	EJ042535	EJ042540	EJ043297	EJ060535	EJ114733	EJ116503
NUCLEAR POWER	(17)	EJ043298	EJ116539	EJ116541	EJ120015	EJ120135	EJ161140
NUCLEAR POWER GENERATION	(11)	EJ116475					EJ178314
*NUCLEAR POWER PLANTS	(11)	EJ109864					
NUCLEAR POWER PLANTS	(11)	EJ088518					
*NUCLEAR POWER PLANT TECHNICIAN	(11)	EJ113773					
*NUCLEAR REACTIONS	(13)	EJ126543	EJ128195	EJ129197			
*NUCLEAR REACTIONS	(16)	EJ040884	EJ108001	EJ123226	EJ123227	EJ126839	EJ185492
NUCLEAR REACTORS	(13)	EJ029021	EJ111501	EJ136671			
*NUCLEAR REGULATORY COMMISSION	(11)	EJ107556					
*NUCLEAR WARFARE	(13)	EJ141799	EJ190244	EJ185420			
NUCLEAR WARFARE	(11)	EJ161140					
*NUCLEAR WASTES	(12)	EJ100026	EJ185865				
*NUFFIELD PROJECT	(11)	EJ128298					
*OBJECTIVES	(12)	EJ111458	EJ123237				
OBJECTIVES	(14)	EJ114753	EJ116475	EJ118138	EJ118051		
OCCUPATIONAL INFORMATION	(12)	EJ102262	EJ142450				
*OCCUPATIONAL MOBILITY	(11)	EJ105352					
OCCUPATIONAL SURVEYS	(11)	EJ102262					
*OCEAN ENGINEERING	(13)	EJ151847	EJ155744	EJ185492			
OCEAN ENGINEERING	(11)	EJ116547					
*OCEAN FARMING	(11)	EJ151847					
*OCEANOLOGY	(14)	EJ111515	EJ116547	EJ133245	EJ185492		
OCEANOLOGY	(12)	EJ091764	EJ174226				
*OCEAN THERMAL ENERGY CONVERSION	(11)	EJ133245					
*OFFICE OF ENERGY R AND D POLICY (H & P)	(11)	EJ083762					

*PHYSICAL HEALTH	(11)	EJ113543							
PHYSICAL SCIENCE	(11)	EJ106477							
PHYSICAL SCIENCE II	(11)	EJ042685							
*PHYSICAL SCIENCES	(18)	EJ020653	EJ021944	EJ042685	EJ053618	EJ053619	EJ055624	EJ056554	
		EJ068799	EJ068824	EJ070366	EJ074475	EJ110442	EJ124774	EJ126790	
		EJ154218	EJ178295						
PHYSICAL SCIENCES	(21)	EJ053616	EJ053617	EJ058862	EJ067228	EJ078527	EJ085166	EJ106479	
		EJ145454	EJ166578	EJ170433	EJ176342	EJ180014	EJ182292	EJ185490	
		EJ185491	EJ185492	EJ185493	EJ185494	EJ185495	EJ185496		
*PHYSICS	(58)	EJ015034	EJ020644	EJ021954	EJ023377	EJ024076	EJ027033	EJ049127	
		EJ045128	EJ045491	EJ046435	EJ047844	EJ051754	EJ052355	EJ068803	EJ073282
		EJ073696	EJ075232	EJ078527	EJ083226	EJ086713	EJ086734	EJ086917	EJ103133
		EJ111462	EJ113138	EJ117801	EJ119862	EJ121506	EJ123186	EJ123194	EJ124410
		EJ126762	EJ126785	EJ126786	EJ128404	EJ130247	EJ136867	EJ145329	EJ145422
		EJ148789	EJ148826	EJ148829	EJ152242	EJ157414	EJ154393	EJ160578	EJ170433
		EJ176292	EJ176316	EJ176342	EJ179745	EJ180244	EJ182192	EJ185578	EJ195590
		EJ185594	EJ185599	EJ185649					
PHYSICS	(46)	EJ001325	EJ016322	EJ029732	EJ039219	EJ053620	EJ058080	EJ068810	
		EJ085166	EJ086872	EJ091784	EJ107918	EJ107984	EJ109864	EJ113139	EJ113246
		EJ114733	EJ114735	EJ114736	EJ114737	EJ114901	EJ114903	EJ116547	EJ118653
		EJ121326	EJ121356	EJ124812	EJ124872	EJ126543	EJ129195	EJ129401	EJ136619
		EJ136823	EJ148853	EJ150842	EJ152249	EJ161140	EJ168438	EJ176246	EJ185490
		EJ185491	EJ185492	EJ185493	EJ185494	EJ185495	EJ185496	EJ185497	
*PILOT PROJECTS	(11)	EJ092690							
*PLANNING	(3)	EJ150208	EJ158794	EJ185865					
PLANNING	(4)	EJ044419	EJ136364	EJ174274	EJ185213				
*PLANNING COMMISSIONS	(11)	EJ114905							
PLANTS	(1)	EJ158314							
*PLANT SCIENCE	(1)	EJ185490							
PLANT SCIENCE	(1)	EJ123238							
*PLASTICS	(1)	EJ162205							
PLAY	(1)	EJ168494							
*PLAYGROUNDS	(1)	EJ124206							
*PLUTONIUM	(1)	EJ096769							
*POLICY	(7)	EJ045124	EJ045126	EJ070511	EJ088523	EJ101462	EJ104744	EJ123225	
POLICY	(7)	EJ040894	EJ044880	EJ045125	EJ055962	EJ083362	EJ088463	EJ182303	
*POLICY FORMATION	(12)	EJ060275	EJ090158	EJ096885	EJ114737	EJ121613	EJ147064	EJ148807	
		EJ150547	EJ176213	EJ185420	EJ185452				
POLICY FORMATION	(16)	EJ066949	EJ110311	EJ118134	EJ128144	EJ128201	EJ130015	EJ158252	
		EJ161469	EJ176412	EJ185429					
POLITICAL ATTITUDES	(1)	EJ154218							
*POLITICAL INFLUENCES	(1)	EJ185916							
POLITICAL INFLUENCES	(2)	EJ155828	EJ184525						
*POLITICAL ISSUES	(9)	EJ047972	EJ060480	EJ130015	EJ141789	EJ149807	EJ152148	EJ152150	
		EJ155753	EJ166537						
POLITICAL ISSUES	(3)	EJ060529	EJ166538	EJ176383					
*POLITICAL SCIENCE	(1)	EJ064832							
*POLITICS	(4)	EJ064834	EJ126284	EJ150547	EJ179861				
POLITICS	(1)	EJ130015							
*POLLUTION	(31)	EJ017209	EJ029732	EJ037160	EJ039226	EJ042535	EJ043248	EJ044233	
		EJ044419	EJ045992	EJ051782	EJ053617	EJ062199	EJ062199	EJ063311	
		EJ083418	EJ096797	EJ104480	EJ106493	EJ109416	EJ111455	EJ113178	EJ113191
		EJ116542	EJ116544	EJ116545	EJ118144	EJ123178	EJ123229	EJ143463	EJ185953
POLLUTION	(53)	EJ029021	EJ043297	EJ045126	EJ047972	EJ066634	EJ077726	EJ083246	
		EJ083249	EJ091676	EJ091677	EJ091775	EJ095089	EJ095130	EJ095150	
		EJ095155	EJ096769	EJ107892	EJ108840	EJ109896	EJ110901	EJ111503	
		EJ114733	EJ114738	EJ114592	EJ119292	EJ119554	EJ121613	EJ126432	EJ126435
		EJ126621	EJ128189	EJ128195	EJ128197	EJ128200	EJ128201	EJ128401	EJ131564
		EJ176861	EJ141789	EJ151847	EJ159464	EJ166537	EJ170762	EJ174228	EJ176383
		EJ178245	EJ178262	EJ182144	EJ184525	EJ185865	EJ185947		
POPULATION DISTRIBUTION	(1)	EJ126660							
*POPULATION EDUCATION	(2)	EJ126432	EJ155922						
POPULATION EDUCATION	(2)	EJ083248	EJ126660						
*POPULATION GROWTH	(5)	EJ123177	EJ126660	EJ126663	EJ131564	EJ148774			
POPULATION GROWTH	(6)	EJ091775	EJ100136	EJ106502	EJ114753	EJ123174	EJ152301		
*POPULATION TRENDS	(3)	EJ093312	EJ126660	EJ148774					
POPULATION TRENDS	(6)	EJ034117	EJ067227	EJ083311	EJ086623	EJ095088	EJ106500		
*PORTLAND OREGON COMMUNITY COLLEGE	(1)	EJ158797							
*POST SECONDARY EDUCATION	(2)	EJ112199	EJ160090						
POST SECONDARY EDUCATION	(4)	EJ158326	EJ158766	EJ167233	EJ173090				
*POWER GENERATION	(1)	EJ185428							
POWER GENERATION	(1)	EJ118144							
*POWER GENERATORS	(1)	EJ128401							
*POWER MECHANICS	(2)	EJ026122	EJ068824						
POWER MECHANICS	(2)	EJ053617	EJ184512						
*POWER PLANTS	(2)	EJ182250	EJ182252						
POWER PRODUCTION	(1)	EJ034117							
POWER TRANSMISSION	(1)	EJ026122							

PRACTICAL MATHEMATICS	(1)	EJ150642						
*PREDICTION	(8)	EJ067227	EJ095282	EJ106422	EJ111459	EJ123416	EJ135072	EJ152048
	EJ174274							
PREDICTION	(7)	EJ046543	EJ064036	EJ080763	EJ083312	EJ088411	EJ129974	EJ185424
*PREFABRICATION	(2)	EJ158787	EJ184516					
PREFABRICATION	(1)	EJ167826						
PRESCHOOL CHILDREN	(1)	EJ118277						
*PRESCHOOL EDUCATION	(2)	EJ094550	EJ118277					
*PRESCHOOL LEARNING	(1)	EJ094550						
*PRESERVATION	(2)	EJ068950	EJ092730					
PRESIDENT CARTER	(1)	EJ166538						
PRESIDENTIAL MESSAGE	(1)	EJ055462						
PRESS INFLUENCE	(1)	EJ183121						
*PRESTRESSED CONCRETE	(1)	EJ134486						
*PREVENTION	(3)	EJ102608	EJ132511	EJ136046				
*PREVENTIVE MAINTENANCE	(1)	EJ102608						
PRIMARY EDUCATION	(1)	EJ104104						
PRIVATE ENTERPRISE	(1)	EJ103650						
PRIVATE SCHOOLS	(2)	EJ132542	EJ140163					
*PROBABILITY	(1)	EJ080763						
*PROBLEMS	(2)	EJ089438	EJ184525					
PROBLEMS	(3)	EJ096797	EJ114905	EJ185576				
*PROBLEM SETS	(1)	EJ185576						
*PROBLEM SOLVING	(2)	EJ110311	EJ170625					
PROBLEM SOLVING	(2)	EJ089412	EJ133389					
PROCESS EDUCATION	(1)	EJ128322						
*PRODUCTION TECHNIQUES	(3)	EJ136660	EJ136671	EJ136677				
PRODUCTION TECHNIQUES	(3)	EJ068824	EJ096886	EJ185426				
*PRODUCTIVITY	(1)	EJ121574						
PROFESSIONAL EDUCATION	(2)	EJ126147	EJ186618					
*PROFESSIONAL OCCUPATIONS	(1)	EJ142450						
PROFESSIONAL OCCUPATIONS	(1)	EJ102262						
*PROFESSIONAL PERSONNEL	(1)	EJ110911						
*PROFESSIONAL RECOGNITION	(1)	EJ110911						
*PROGRAM BUDGETING	(2)	EJ088523	EJ095183					
*PROGRAM CONTENT	(1)	EJ026122						
*PROGRAM COSTS	(1)	EJ130135						
*PROGRAM DESCRIPTIONS	(10)	EJ106484	EJ111458	EJ118138	EJ146475	EJ152621	EJ156283	EJ159464
	EJ159765	EJ169103	EJ169791					
PROGRAM DESCRIPTIONS	(5)	EJ042685	EJ100132	EJ164144	EJ167233	EJ182847		
PROGRAM DESIGN	(1)	EJ170764						
*PROGRAM DEVELOPMENT	(2)	EJ153621	EJ180186					
PROGRAM DEVELOPMENT	(1)	EJ076123						
*PROGRAM EFFECTIVENESS	(1)	EJ180934						
PROGRAM EVALUATION	(1)	EJ112199						
*PROGRAMING (BROADCAST)	(1)	EJ182600						
*PROGRAM PLANNING	(1)	EJ098235						
PROGRAM PLANNING	(1)	EJ178839						
*PROGRAM PROPOSALS	(2)	EJ090137	EJ118261					
PROGRAM PROPOSALS	(1)	EJ061005						
*PROJECT INDEPENDENCE	(4)	EJ088463	EJ105184	EJ116508	EJ116541			
PROJECT INDEPENDENCE	(1)	EJ088523						
*PROJECT TRAINING METHODS	(1)	EJ167233						
*PROPERTY ACCOUNTING	(1)	EJ180934						
PSECS	(1)	EJ162202						
PUBLIC AFFAIRS EDUCATION	(1)	EJ126147						
*PUBLICATIONS	(2)	EJ173990	EJ173991					
*PUBLIC EDUCATION	(1)	EJ088234						
*PUBLIC FACILITIES	(2)	EJ092662	EJ092669					
*PUBLIC HEALTH	(7)	EJ020656	EJ062101	EJ082015	EJ114735	EJ114738	EJ128201	EJ185867
PUBLIC HEALTH	(8)	EJ060529	EJ062496	EJ106500	EJ113178	EJ119144	EJ126543	EJ136861
	EJ141769							
*PUBLIC OPINION	(1)	EJ135517						
*PUBLIC POLICY	(6)	EJ079420	EJ116502	EJ116503	EJ116504	EJ116509	EJ166538	
PUBLIC POLICY	(3)	EJ126284	EJ126194	EJ150547				
*PUBLIC RELATIONS	(1)	EJ169102						

*PUBLIC SCHOOLS ENERGY CONSERVATION SERVICE	(1)	EJ162202							
PUBLIC SCHOOLS ENERGY CONSERVATION SERVICE (PSECS)	(1)	EJ129396							
PUBLIC SCHOOL SYSTEMS	(1)	EJ153653							
*PURCHASING	(3)	EJ084404	EJ150213	EJ181446					
*QUALITY CONTROL	(1)	EJ060277							
QUALITY OF LIFE	(1)	EJ037160							
*QUANTUM MECHANICS	(1)	EJ126782							
QUANTUM MECHANICS	(1)	EJ185549							
*QUESTION ANSWER INTERVIEWS	(1)	EJ176412							
*RADIATION	(18)	EJ034226	EJ040884	EJ042540	EJ043247	EJ044233	EJ045442	EJ052325	
		EJ060529	EJ076123	EJ083418	EJ096769	EJ104001	EJ104864	EJ124426	EJ126839
		EJ130265	EJ182182	EJ185865					
RADIATION	(18)	EJ001325	EJ039219	EJ039951	EJ042535	EJ040480	EJ062101	EJ062486	
		EJ100026	EJ106440	EJ107444	EJ111501	EJ114733	EJ114736	EJ121426	EJ124425
		EJ128219	EJ130247	EJ182184					
RADIATION BIOLOGY	(1)	EJ096769							
*RADIATION EFFECTS	(12)	EJ017116	EJ020656	EJ045991	EJ058080	EJ05282	EJ096769	EJ108001	
		EJ104864	EJ114733	EJ178295	EJ185416				
RADIATION EFFECTS	(2)	EJ021954	EJ136701						
*RADIOACTIVE WASTES	(1)	EJ179862							
RADIOACTIVE WASTES	(1)	EJ034226							
*RADIOISOTOPES	(1)	EJ058080							
RADIOISOTOPES	(6)	EJ029021	EJ039219	EJ045804	EJ083418	EJ095282	EJ128147		
RASMUSSEN REPORT	(2)	EJ128195	EJ128147						
*REACTOR FUELS	(1)	EJ062486							
REACTORS	(1)	EJ107854							
*RECREATIONAL FACILITIES	(2)	EJ162196	EJ170772						
RECREATIONAL FACILITIES	(1)	EJ165856							
RECREATION LEGISLATION	(1)	EJ163196							
*RECYCLING	(13)	EJ054462	EJ061170	EJ067226	EJ079414	EJ090084	EJ094777	EJ111503	
		EJ114452	EJ114452	EJ126031	EJ126664	EJ185727	EJ185857		
RECYCLING	(7)	EJ037833	EJ052154	EJ060277	EJ041248	EJ110411	EJ172471	EJ179862	
*REFERENCE MATERIALS	(2)	EJ101549	EJ126255						
REFERENCE MATERIALS	(1)	EJ094142							
REGIONAL CHARACTERISTICS	(1)	EJ174213							
*REGIONAL PLANNING	(2)	EJ043248	EJ176213						
*RELATIVITY	(2)	EJ084734	EJ123194						
RELATIVITY	(1)	EJ073696							
*RELEVANCE (EDUCATION)	(1)	EJ108693							
RELEVANCE (EDUCATION)	(1)	EJ136434							
*RENEWABLE ENERGY SOURCES	(1)	EJ150543							
*REPORTS	(2)	EJ074478	EJ084411						
REPORTS	(7)	EJ052445	EJ046885	EJ096903	EJ106422	EJ123411	EJ123412	EJ147162	
*RESEARCH	(16)	EJ084430	EJ104440	EJ107556	EJ111506	EJ111513	EJ116444	EJ116546	
		EJ117801	EJ134888	EJ185484	EJ185484	EJ185491	EJ185492	EJ185494	
		EJ185496							
RESEARCH	(20)	EJ070511	EJ075232	EJ084419	EJ086523	EJ094422	EJ094133	EJ106422	
		EJ116502	EJ130014	EJ133245	EJ136861	EJ147068	EJ148553	EJ154459	EJ164438
		EJ182182	EJ182184	EJ185426	EJ185493	EJ185544			
RESEARCH AND DEVELOPMENT CENTERS	(1)	EJ135134							
RESEARCH APPLIED TO NATIONAL NEEDS	(1)	EJ040133							
RESEARCH DESIGN	(1)	EJ147621							
RESEARCH LIBRARIES	(1)	EJ126255							
RESEARCH METHODOLOGY	(2)	EJ147621	EJ166449						
*RESEARCH NEEDS	(6)	EJ075372	EJ084283	EJ090127	EJ090158	EJ095183	EJ094542		
RESEARCH NEEDS	(2)	EJ017209	EJ061170						
RESEARCH PROBLEMS	(5)	EJ070510	EJ075372	EJ094583	EJ116509	EJ166697			
*RESEARCH PROJECTS	(2)	EJ090133	EJ117801						
RESEARCH PROJECTS	(1)	EJ184515							
*RESEARCH PROPOSALS	(3)	EJ045127	EJ045128	EJ082015					
RESEARCH PROPOSALS	(1)	EJ112261							
RESEARCH REPORTS	(2)	EJ084419	EJ185484						
RESEARCH REVIEWS (PUBLICATIONS)	(2)	EJ083908	EJ140250						
*RESEARCH UTILIZATION	(1)	EJ114955							
RESEARCH UTILIZATION	(2)	EJ119888	EJ147621						
*RESOURCE ALLOCATIONS	(4)	EJ092663	EJ092735	EJ111513	EJ114966	EJ126436	EJ157075	EJ180156	
		EJ180167	EJ184526						
RESOURCE ALLOCATIONS	(3)	EJ180189	EJ185471	EJ185864					
*RESOURCE GUIDES	(1)	EJ176383							

RESOURCE GUIDES	(11)	EJC90643							
RESOURCE MANAGEMENT	(11)	EJ136634							
*RESOURCE MATERIALS	(17)	EJ008400 EJC75232 EJ086917	EJ047844 EJC78527 EJ140250	EJ068824 EJC80340	EJ072971 EJC80341	EJ073646 EJC81326	EJ074475 EJC85166	EJ074478 EJC86872	
RESOURCE MATERIALS	(37)	EJC34226 EJC53617 EJC60535 EJC60343 EJC93638	EJ045991 EJC53619 EJC62101 EJC82038 EJ111506	EJ046435 EJC53620 EJC63908 EJC83312 EJ135228	EJ051742 EJC55024 EJC67224 EJC83418 EJ154218	EJ051743 EJC5A554 EJC68610 EJC86713 EJ164441	EJ053159 EJC58080 EJC70366 EJC8A523	EJ053616 EJC80524 EJC74471 EJC88582	
*RESOURCES	(9)	EJ045125 EJC96777	EJ067229 EJ185927	EJ068824	EJ068950	EJ070510	EJ070511	EJ088601	
RESOURCES	(16)	EJC84400 EJC67230 EJ180156	EJ045126 EJC72970	EJ045127 EJC80343	EJ045128 EJC101519	EJC59962 EJ111513	EJC67227 EJ116508	EJ067228 EJ140044	
*RESPONSIBILITY	(1)	EJ175704							
*RETURNABLE BOTTLES	(1)	EJ119841							
ROLE PLAYING	(3)	EJ074902	EJ147229	EJ183644					
*ROOFING	(5)	EJ114209	EJ129334	EJ129375	EJ162205	EJ162206			
RURAL DEVELOPMENT	(1)	EJ129972							
RURAL ENVIRONMENT	(1)	EJ140262							
*RURAL URBAN DIFFERENCES	(1)	EJ136701							
*SAFETY	(18)	EJC40884 EJ168001 EJ128197	EJ042544 EJ123227 EJ130265	EJ044233 EJ124922 EJ143444	EJ044419 EJ124926	EJ060531 EJ126435	EJ062486 EJ126543	EJ107918 EJ128195	
SAFETY	(11)	EJ020656 EJ111501	EJ045942 EJ118261	EJ060480 EJ141789	EJ060529	EJC92653	EJ107854	EJ109864	
SAFETY EQUIPMENT	(2)	EJC72900	EJ124925						
*SALARIES	(1)	EJ181451							
*SANITATION	(1)	EJ166635							
*SCHEDULING	(2)	EJC92730	EJ117570						
*SCHLIEREN PHOTOGRAPHY	(1)	EJ152242							
*SCHOOL ACCOUNTING	(1)	EJ165851							
*SCHOOL ACTIVITIES	(1)	EJ160941							
*SCHOOL ADMINISTRATION	(2)	EJC92648	EJ134430						
SCHOOL ADMINISTRATION	(2)	EJ153621	EJ165233						
*SCHOOL ARCHITECTURE	(1)	EJ176620							
SCHOOL ARCHITECTURE	(1)	EJC92627							
*SCHOOL BUILDINGS	(12)	EJ089431 EJ151328	EJ092723 EJ158751	EJ104164 EJ164144	EJ105880 EJ170765	EJ109213	EJ125815	EJ144929	
SCHOOL BUILDINGS	(7)	EJC76226	EJ082623	EJC94448	EJ104168	EJ148069	EJ155117	EJ165858	
*SCHOOL CALENDARS	(1)	EJ162208							
*SCHOOL CLOSING	(2)	EJ160514	EJ165233						
SCHOOL CLOSING	(2)	EJ092735	EJ146475						
*SCHOOL COMMUNITY COOPERATION	(1)	EJ165233							
*SCHOOL CONSTRUCTION	(7)	EJ104129	EJ107984	EJ114209	EJ119203	EJ124216	EJ157028	EJ158787	
*SCHOOL DESIGN	(25)	EJC89411 EJ127654 EJ153613 EJ180163	EJ099444 EJ129334 EJ158788 EJ183228	EJ116207 EJ129376 EJ162251	EJ117546 EJ132540 EJ165912	EJ124116 EJ134486 EJ169751	EJ124206 EJ134492 EJ169753	EJ125844 EJ151338 EJ176620	
SCHOOL DESIGN	(4)	EJ082624	EJ082628	EJ092723	EJ114209				
*SCHOOL DISTRICTS	(1)	EJ151460							
SCHOOL DISTRICTS	(4)	EJ099435	EJ129396	EJ173511	EJ173512				
*SCHOOL DISTRICT SPENDING	(5)	EJC89431	EJ094567	EJ136074	EJ153653	EJ191451			
SCHOOL DISTRICT SPENDING	(2)	EJC89430	EJ150186						
*SCHOOL ENVIRONMENT	(1)	EJ094583							
SCHOOL EXPANSION	(1)	EJ183229							
SCHOOL FUNDS	(1)	EJ089428							
*SCHOOL IMPROVEMENT	(9)	EJ102605 EJ183229	EJ104169 EJ193229	EJ124216	EJ129380	EJ129396	EJ141215	EJ166492	
SCHOOL IMPROVEMENT	(2)	EJC97709	EJ158787						
*SCHOOL INDUSTRY RELATIONSHIP	(2)	EJ124465	EJ183644						
*SCHOOL MAINTENANCE	(24)	EJ084486 EJC92730 EJ129375 EJ151451	EJ087779 EJC94435 EJ129380 EJ132511	EJ089409 EJ102571 EJ135655	EJ089413 EJ102604 EJ136046	EJC89419 EJ110960 EJ146478	EJC89423 EJ117569 EJ162206	EJ092639 EJ125781 EJ175892	
SCHOOL MAINTENANCE	(12)	EJ082623 EJ107280	EJ089414 EJ160514	EJC89420 EJ169814	EJC91228 EJ173511	EJ092615	EJ092723	EJ105826	
*SCHOOL NEWSPAPERS	(1)	EJ165786							
*SCHOOL PLANNING	(4)	EJC92640	EJ099449	EJ115970	EJ183228				
SCHOOL PLANNING	(2)	EJC70758	EJ153613						
SCHOOL POLICY	(1)	EJ159765							
*SCHOOL RESPONSIBILITY	(1)	EJ164103							
SCHOOLS	(1)	EJ102611							
*SCHOOL SCHEDULES	(1)	EJ172303							

SCHOOL SCHEDULES	(11)	EJ156789							
*SCHOOL SECURITY	(11)	EJ107290							
*SCHOOL SHOPS	(11)	EJ178844							
SCHOOL SHOPS	(11)	EJ135663							
*SCHOOL STATISTICS	(11)	EJ153653							
SCHOOL STATISTICS	(11)	EJ181451							
*SCHOOL SURVEYS	(11)	EJ134068							
*SCHOOL SYSTEMS	(11)	EJ092728							
*SCIENCE ACTIVITIES	(29)	EJ042695 EJ124872 EJ166578 EJ160160	EJ055024 EJ126790 EJ172447 EJ182148	EJ062444 EJ128322 EJ174422 EJ182144	EJ091784 EJ133268 EJ176316 EJ182292	EJ104454 EJ133522 EJ178324 EJ185580	EJ121356 EJ140160 EJ176745	EJ121363 EJ159343 EJ179843	
SCIENCE ACTIVITIES	(16)	EJ001325 EJ133364 EJ180159	EJ074402 EJ150707	EJ086713 EJ166629	EJ098570 EJ166506	EJ107494 EJ176312	EJ113158 EJ180157	EJ128305 EJ180158	
*SCIENCE AND MAN IN THE AMERICAS	(11)	EJ086823							
SCIENCE CONSULTANTS	(11)	EJ148807							
*SCIENCE COURSES	(13)	EJ114753	EJ145422	EJ176312					
*SCIENCE EDUCATION	(114)	EJ022036 EJ10847 EJ174857	EJ022038 EJ104844 EJ182149	EJ093311 EJ119939 EJ182150	EJ094734 EJ126663	EJ095130 EJ162939	EJ094853 EJ178313	EJ101519 EJ178314	
SCIENCE EDUCATION	(174)	EJ043133 EJ080340 EJ088352 EJ091784 EJ094853 EJ106479 EJ109454 EJ114841 EJ119955 EJ123186 EJ126782 EJ128322 EJ133268 EJ139888 EJ145324 EJ150707 EJ160941 EJ172447 EJ178295 EJ180164 EJ182144 EJ185494 EJ185761	EJ043133 EJ080341 EJ088411 EJ091784 EJ094853 EJ106479 EJ109454 EJ114841 EJ119955 EJ123186 EJ126782 EJ128322 EJ133268 EJ139888 EJ145324 EJ150707 EJ160941 EJ172447 EJ178295 EJ180164 EJ182144 EJ185494 EJ185761	EJ088810 EJ093311 EJ094853 EJ095087 EJ095087 EJ104482 EJ106489 EJ109454 EJ114841 EJ119955 EJ123186 EJ126782 EJ128322 EJ133268 EJ139888 EJ145324 EJ150707 EJ160941 EJ172447 EJ178295 EJ180164 EJ182144 EJ185494 EJ185761	EJ073282 EJ093311 EJ094853 EJ095087 EJ095087 EJ104482 EJ106489 EJ109454 EJ114841 EJ119955 EJ123186 EJ126782 EJ128322 EJ133268 EJ139888 EJ145324 EJ150707 EJ160941 EJ172447 EJ178295 EJ180164 EJ182144 EJ185494 EJ185761	EJ073646 EJ093311 EJ094853 EJ095087 EJ095087 EJ104482 EJ106489 EJ109454 EJ114841 EJ119955 EJ123186 EJ126782 EJ128322 EJ133268 EJ139888 EJ145324 EJ150707 EJ160941 EJ172447 EJ178295 EJ180164 EJ182144 EJ185494 EJ185761	EJ074475 EJ093311 EJ094853 EJ095087 EJ095087 EJ104482 EJ106489 EJ109454 EJ114841 EJ119955 EJ123186 EJ126782 EJ128322 EJ133268 EJ139888 EJ145324 EJ150707 EJ160941 EJ172447 EJ178295 EJ180164 EJ182144 EJ185494 EJ185761	EJ075232 EJ093311 EJ094853 EJ095087 EJ095087 EJ104482 EJ106489 EJ109454 EJ114841 EJ119955 EJ123186 EJ126782 EJ128322 EJ133268 EJ139888 EJ145324 EJ150707 EJ160941 EJ172447 EJ178295 EJ180164 EJ182144 EJ185494 EJ185761	EJ079423 EJ086417 EJ091676 EJ095125 EJ106478 EJ109454 EJ114841 EJ119955 EJ123186 EJ126782 EJ128322 EJ133268 EJ139888 EJ145324 EJ150707 EJ160941 EJ172447 EJ178295 EJ180164 EJ182144 EJ185494 EJ185761
*SCIENCE EQUIPMENT	(10)	EJ091791 EJ174482	EJ086713 EJ176312	EJ185761	EJ107918	EJ104454	EJ121426	EJ130247	EJ170433
SCIENCE EQUIPMENT	(12)	EJ045804	EJ051754						
*SCIENCE EXPERIMENTS	(16)	EJ001325	EJ096713	EJ128305	EJ148784	EJ148826	EJ176312		
SCIENCE EXPERIMENTS	(13)	EJ170765	EJ179745	EJ180160					
*SCIENCE FACILITIES	(12)	EJ078527	EJ132542						
SCIENCE FAIRS	(1)	EJ160941							
*SCIENCE HISTORY	(4)	EJ053616	EJ053618	EJ119962	EJ121417				
SCIENCE HISTORY	(13)	EJ053617	EJ073696	EJ086734					
*SCIENCE INSTITUTES	(11)	EJ182184							
SCIENCE INSTRUCTION	(13)	EJ185578	EJ185580	EJ185589					
*SCIENCE LABORATORIES	(11)	EJ157030							
*SCIENCE MATERIALS	(11)	EJ086872 EJ114916	EJ086917 EJ116486	EJ114733 EJ116610	EJ114735 EJ119863	EJ114736 EJ121326	EJ114737 EJ130247	EJ114738 EJ185763	
SCIENCE MATERIALS	(11)	EJ090121 EJ136819	EJ090121 EJ161106	EJ114905 EJ174306	EJ118261	EJ119862	EJ123357	EJ131551	
SCIENCE PROGRAMS	(11)	EJ090133							
*SCIENCE PROJECTS	(12)	EJ170765	EJ179857						
SCIENCE PROJECTS	(13)	EJ119939	EJ149789	EJ160941					
*SCIENCES	(18)	EJ086823 EJ185494	EJ101599	EJ104746	EJ139988	EJ148807	EJ159454	EJ185416	
SCIENCES	(18)	EJ074402 EJ185346	EJ101639	EJ106500	EJ109940	EJ117801	EJ121567	EJ135134	
*SCIENCE TEACHERS	(12)	EJ095130	EJ179802						
*SCIENCE TEACHING CENTERS	(1)	EJ162844							
SCIENCE UNITS	(12)	EJ145422	EJ180014						
*SCIENTIFIC CONCEPTS	(111)	EJ001325 EJ086872	EJ027033 EJ123186	EJ033627 EJ147621	EJ033624	EJ069799	EJ073292	EJ086734	
SCIENTIFIC CONCEPTS	(12)	EJ024076	EJ103173						
*SCIENTIFIC ENTERPRISE	(13)	EJ103133	EJ152148	EJ168438					
SCIENTIFIC ENTERPRISE	(13)	EJ180244	EJ182182	EJ185549					
SCIENTIFIC LITERACY	(1)	EJ098535							
*SCIENTIFIC MANPOWER	(1)	EJ098535							
SCIENTIFIC MANPOWER	(1)	EJ103650							
*SCIENTIFIC METHODOLOGY	(1)	EJ119862							
SCIENTIFIC METHODOLOGY	(1)	EJ045804							
*SCIENTIFIC PERSONNEL	(13)	EJ045785	EJ045791	EJ098535					
*SCIENTIFIC PRINCIPLES	(12)	EJ073696	EJ185489						

SCIENTIFIC PRINCIPLES	(4)	EJ027033	EJ086734	EJ090121	FJ091764			
*SCIENTIFIC RESEARCH	(37)	EJ020644	EJ053620	EJ070510	EJ070511	EJ076123	EJ081791	EJ082015
		EJ085166	EJ088874	EJ090133	EJ090137	EJ090158	EJ091776	EJ095183
		EJ098563	EJ114927	EJ114966	EJ116509	EJ116538	EJ118124	EJ118261
		EJ124827	EJ131551	EJ135134	EJ136671	EJ136819	EJ136867	EJ136888
		EJ159454	EJ180188	EJ182182	EJ182184	EJ185405	EJ185599	EJ155828
SCIENTIFIC RESEARCH	(13)	EJ039951	EJ045804	EJ067229	EJ078527	EJ083383	EJ104746	EJ109901
		EJ118137	EJ125212	EJ124925	FJ139888	EJ137621	EJ144438	
*SCIENTISTS	(2)	EJ103133	EJ109840					
SCIENTISTS	(3)	EJ098535	EJ103650	EJ136867				
*SECONDARY EDUCATION	(4)	EJ155780	EJ162939	EJ170765	FJ182150			
SECONDARY EDUCATION	(50)	EJ046590	EJ104219	EJ114841	EJ114971	EJ116630	EJ119934	EJ121356
		EJ121363	EJ124215	EJ124216	EJ124472	EJ126795	EJ126796	EJ126843
		EJ128288	EJ128305	EJ128404	EJ132542	EJ133268	EJ135037	EJ139909
		EJ140160	EJ147229	EJ148076	EJ148091	EJ148226	EJ151338	EJ155422
		EJ165766	EJ165912	EJ167874	FJ170625	EJ171062	EJ172511	EJ173512
		EJ175169	EJ176246	EJ176516	FJ178324	EJ178557	FJ182148	EJ182149
		EJ185578	EJ185580	EJ185580				EJ184916
*SECONDARY GRADES	(1)	EJ162910						
SECONDARY GRADES	(1)	EJ086601						
*SECONDARY SCHOOL MATHEMATICS	(1)	FJ135037						
SECONDARY SCHOOL MATHEMATICS	(1)	EJ124738						
SECONDARY SCHOOLS	(5)	EJ089409	EJ091228	EJ092648	EJ105864	FJ125844		
*SECONDARY SCHOOL SCIENCE	(31)	EJ021444	EJ023377	EJ033627	EJ033628	FJ047844	EJ053617	EJ053619
		EJ053620	EJ068012	EJ083324	EJ086713	EJ095098	EJ095090	EJ095155
		EJ113139	EJ113139	EJ126863	EJ128205	EJ132604	EJ133364	EJ139908
		EJ148626	EJ152031	EJ154393	EJ174482	EJ176246	EJ176316	EJ185578
SECONDARY SCHOOL SCIENCE	(41)	EJ020653	EJ042685	EJ045991	EJ046435	FJ053616	EJ053618	EJ055024
		EJ062444	EJ091784	EJ095130	FJ098453	FJ106477	FJ106479	EJ106484
		EJ107984	EJ109884	EJ109884	EJ111455	EJ111458	EJ111459	EJ111462
		EJ114841	EJ114905	EJ114939	FJ119942	EJ121356	EJ121363	EJ124872
		EJ126790	EJ128288	EJ140160	FJ145329	EJ155780	EJ166578	EJ172447
		EJ182292	EJ185580					EJ179324
*SECONDARY SCHOOL STUDENTS	(1)	FJ185761						
*SEISMOLOGY	(1)	FJ185401						
SENIOR HIGH SCHOOLS	(1)	EJ184512						
SEQUENTIAL LEARNING	(1)	EJ128288						
SHACOB	(1)	EJ150543						
*SHARED FACILITIES	(1)	EJ104124						
SHARED FACILITIES	(1)	EJ148562						
*SIMULATION	(4)	FJ087017	FJ116592	FJ147229	EJ178444			
SIMULATION	(4)	EJ082625	EJ089430	FJ110960	FJ172447			
*SITE ANALYSIS	(1)	FJ102526						
*SITE DEVELOPMENT	(1)	FJ170772						
*SITE SELECTION	(1)	EJ129306						
SITE SELECTION	(2)	EJ169753	EJ170772					
SKILL DEVELOPMENT	(2)	EJ147229	EJ160054					
*SKILLED WORKERS	(1)	EJ103650						
*SOCIAL ATTITUDES	(1)	EJ090158						
*SOCIAL CHANGE	(1)	EJ080763						
SOCIAL DEVELOPMENT	(1)	EJ080763						
SOCIAL DISCRIMINATION	(1)	EJ090800						
SOCIAL ENVIRONMENT	(1)	EJ090763						
*SOCIAL FACTORS	(2)	EJ047972	EJ126432					
SOCIAL FACTORS	(3)	EJ045126	EJ086828	FJ129973				
*SOCIAL INFLUENCES	(2)	EJ066796	EJ185910					
SOCIAL INFLUENCES	(2)	FJ082015	FJ113097					
*SOCIAL PLANNING	(1)	FJ110311						
SOCIAL PLANNING	(1)	EJ048819						
*SOCIAL PROBLEMS	(10)	EJ054231	EJ064932	EJ103133	EJ111455	EJ126147	EJ126660	EJ140044
		FJ141784	FJ185484					
SOCIAL PROBLEMS	(3)	FJ131408	EJ136264	EJ170763				
*SOCIAL RESPONSIBILITY	(2)	EJ060480	EJ106477					
SOCIAL RESPONSIBILITY	(1)	EJ141794						
*SOCIAL SCIENCES	(1)	EJ058278						
SOCIAL SCIENCES	(1)	EJ079425						
SOCIAL STATUS	(1)	EJ121567						
*SOCIAL STUDIES	(8)	EJ083249	EJ095801	FJ114971	FJ147229	EJ152301	EJ155922	EJ166649
		EJ176412						
SOCIAL STUDIES	(2)	EJ088582	EJ093638					
SOCIAL STUDIES UNITS	(1)	FJ126897						
*SOCIAL VALUES	(2)	FJ113097	EJ153210					
SOCIAL VALUES	(1)	EJ045126						
*SOCIETAL NEEDS	(2)	EJ121415	FJ121417					
SOCIODRAMA	(1)	EJ147229						

*SOCIOECONOMIC INFLUENCES	(14)	EJ029732	EJ136664	EJ160822	EJ176213				
SOCIOECONOMIC INFLUENCES	(13)	EJ131564	EJ141789	EJ153210					
*SOCIOLOGY	(11)	EJ105184							
SOLAR CELLS	(11)	EJ021954							
*SOLAR CONSTANT	(11)	EJ159393							
*SOLAR ENERGY	(16)	EJ061005	EJ105886	EJ111506	EJ130004	EJ166438	EJ170433		
SOLAR ENERGY	(15)	EJ045127	EJ045128	EJ106340	EJ145663	EJ162939			
*SOLAR ENERGY RESEARCH INSTITUTE	(11)	EJ182194							
*SOLAR ENERGY TECHNICIANS	(11)	EJ167233							
*SOLAR FURNACE	(11)	EJ091784							
*SOLAR FURNACE	(11)	EJ179857							
*SOLAR RADIATION	(102)	EJ021954	EJ039451	EJ043133	EJ053618	EJ065554	EJ060479	EJ068863	
		EJ070366	EJ075372	EJ081781	EJ086713	EJ086829	EJ086829	EJ095087	
		EJ102523	EJ107484	EJ111462	EJ114211	EJ114966	EJ116547	EJ121356	
		EJ123263	EJ124146	EJ124627	EJ126651	EJ129334	EJ129379	EJ130004	
		EJ130019	EJ131551	EJ132442	EJ133245	EJ133268	EJ133364	EJ134442	
		EJ136823	EJ140250	EJ142440	EJ143449	EJ143560	EJ145329	EJ145883	
		EJ148036	EJ148826	EJ148829	EJ150208	EJ150209	EJ150210	EJ150211	
		EJ150213	EJ150214	EJ150543	EJ153629	EJ153634	EJ154393	EJ156197	
		EJ162939	EJ164144	EJ164146	EJ167233	EJ167826	EJ167751	EJ169558	
		EJ170765	EJ172305	EJ173090	EJ174482	EJ175169	EJ176240	EJ176316	
		EJ178313	EJ178413	EJ179745	EJ179857	EJ180143	EJ180156	EJ180163	
		EJ182144	EJ182149	EJ182150	EJ182182	EJ182249	EJ182292	EJ182292	
		EJ184515	EJ184516	EJ184525	EJ185490	EJ185580	EJ185761	EJ185922	
SOLAR RADIATION	(14)	EJ039451	EJ068796	EJ083311	EJ092662	EJ092660	EJ095084	EJ118124	
		EJ114238	EJ121506	EJ123237	EJ125556	EJ125556	EJ125556	EJ125556	
		EJ162589	EJ167232	EJ169753	EJ185767			EJ151847	
SOLID WASTE CONTROL	(11)	EJ123238							
*SOLID WASTES	(11)	EJ119952							
SOLID WASTES	(11)	EJ123238							
*SOUTH AUSTRALIA	(11)	EJ113296							
*SPACE SCIENCES	(12)	EJ148853	EJ155828						
SPACE SCIENCES	(11)	EJ182144							
*SPACE UTILIZATION	(13)	EJ124208	EJ158751	EJ180592					
SPACE UTILIZATION	(12)	EJ092735	EJ119238	EJ157025					
SPECIALIZATION	(12)	EJ126147	EJ186018						
SPECIAL LIBRARIES	(11)	EJ126255							
*SPEECHES	(12)	EJ112199	EJ126663						
SPEECHES	(11)	EJ068810							
STACK GAS SCRUBBERS	(11)	EJ118505							
STAFF UTILIZATION	(11)	EJ172303							
*STANDARDS	(10)	EJ045491	EJ051742	EJ060535	EJ092660	EJ114959	EJ121613	EJ130088	
		EJ147064	EJ167207	EJ167590					
STANDARDS	(17)	EJ089409	EJ089411	EJ092667	EJ110911	EJ114211	EJ118242	EJ143463	
STATE AGENCIES	(11)	EJ040884							
*STATE DEPARTMENTS OF EDUCATION	(11)	EJ094567							
*STATE GOVERNMENT	(11)	EJ136364							
*STATE OF THE ART REVIEWS	(14)	EJ185396	EJ195401	EJ185405	EJ165410				
STATE OF THE ART REVIEWS	(12)	EJ185416	EJ185420						
*STATE PROGRAMS	(11)	EJ167416							
STATE PROGRAMS	(11)	EJ180434							
STATE SURVEYS	(11)	EJ112199							
*STATE UNIVERSITIES	(11)	EJ136364							
STATE UNIVERSITIES	(12)	EJ184156	EJ170142						
*STATE UNIVERSITY OF NEW YORK AT ALBANY	(11)	EJ153629							
*STATISTICAL DATA	(12)	EJ155749	EJ159449						
STATISTICAL DATA	(13)	EJ060777	EJ060949	EJ061175					
STATISTICAL SURVEYS	(12)	EJ123431	EJ123432						
*STATISTICS	(12)	EJ114901	EJ135037						
STEAM GENERATORS	(11)	EJ043298							
*STEAM HEATING SYSTEMS	(11)	EJ105826							
*STOCKTON STATE COLLEGE	(11)	EJ148789							
*STORAGE	(11)	EJ083246							
STRIKES	(11)	EJ090800							
STRIP MINING	(11)	EJ106478							
*STUDENT ATTITUDES	(11)	EJ166649							
STUDENT ATTITUDES	(13)	EJ089429	EJ089431	EJ156283					
*STUDENT DEVELOPED MATERIALS	(12)	EJ119939	EJ182148						
STUDENT DEVELOPMENT	(11)	EJ158326							
*STUDENT EMPLOYMENT	(11)	EJ105869							
*STUDENT INTERESTS	(11)	EJ180158							
*STUDENT NEEDS	(11)	EJ098411							

*STUDENT PARTICIPATION	(12)	EJ169103	EJ172609						
STUDENT PARTICIPATION	(11)	EJ159765							
*STUDENT PROJECTS	(10)	EJ114941	EJ140160	EJ145324	EJ148784	EJ148829	EJ159765	EJ170765	
STUDENT PROJECTS	(12)	EJ184515	EJ184516	EJ185580					
*STUDENT PUBLICATIONS	(11)	EJ105082	EJ158326						
*STUDENT RESEARCH	(11)	EJ165766							
*STUDENT ROLE	(11)	EJ023377							
*STUDENT TRANSPORTATION	(13)	EJ134068							
STUDENT TRANSPORTATION	(11)	EJ092623	EJ092728	EJ117570					
*SUBJECT INDEX TERMS	(11)	EJ089421							
*SUBPROFESSIONALS	(11)	EJ134764							
SULFUR DIOXIDE	(11)	EJ117014							
*SUN	(13)	EJ116505	EJ118292	EJ130088					
SUPERCONDUCTIVITY	(11)	EJ149053							
*SUPPLIES	(11)	EJ067230							
SUPPLIES	(12)	EJ094438	EJ096827						
*SUPREME COURT LITIGATION	(12)	EJ061175	EJ082034						
*SURVEYS	(12)	EJ118260	EJ182600						
SURVEYS	(11)	EJ185517							
*SWEDEN	(12)	EJ099435	EJ183121						
SWEDEN	(13)	EJ130015	EJ185864	EJ185865					
SYMBOLIC LEARNING	(11)	EJ153210							
*SYMPOSIA	(11)	EJ174002							
*SYSTEMS ANALYSIS	(11)	EJ096886							
*SYSTEMS APPROACH	(11)	EJ134432							
SYSTEMS APPROACH	(11)	EJ083246	EJ092668	EJ094585	EJ102611	EJ134485	EJ136075	EJ148036	
SYSTEMS CONCEPTS	(17)	EJ165908	EJ165910						
SYSTEMS CONCEPTS	(11)	EJ082624	EJ092662	EJ092666	EJ150211	EJ179802	EJ195425	EJ185429	
*SYSTEMS DEVELOPMENT	(11)	EJ145883							
TABLES (DATA)	(11)	EJ169186							
*TASK PERFORMANCE	(13)	EJ099437							
TASK PERFORMANCE	(11)	EJ089601	EJ105184	EJ153653					
*TAXES	(11)	EJ092667							
TEACHER ATTITUDES	(11)	EJ125785							
*TEACHER DEVELOPED MATERIALS	(11)	EJ184526							
TEACHER DEVELOPED MATERIALS	(11)	EJ084429							
*TEACHER EDUCATION	(11)	EJ091784							
TEACHER EDUCATION	(11)	EJ095570							
*TEACHER RESPONSIBILITY	(11)	EJ083249							
TEACHER RESPONSIBILITY	(11)	EJ095535							
*TEACHER ROLE	(12)	EJ156252	EJ169107						
TEACHER ROLE	(11)	EJ095130							
*TEACHING GUIDES	(12)	EJ106477	EJ169102						
TEACHING GUIDES	(11)	EJ178839							
*TEACHING METHODS	(11)	EJ126477							
TEACHING METHODS	(12)	EJ090643	EJ129463						
*TEACHING MODELS	(14)	EJ157416	EJ162587	EJ172609	EJ180016				
TEACHING MODELS	(13)	EJ074902	EJ170625	EJ179802					
*TEACHING PROCEDURES	(11)	EJ126205							
TEACHING PROCEDURES	(11)	EJ088672							
*TEACHING TECHNIQUES	(12)	EJ033627	EJ033628						
TEACHING TECHNIQUES	(17)	EJ047844	EJ124738	EJ139082	EJ147224	EJ174608	EJ178611	EJ180014	
*TECHNICAL EDUCATION	(5)	EJ073282	EJ108643	EJ113246	EJ114471	EJ172470			
TECHNICAL EDUCATION	(11)	EJ160090							
*TECHNICAL OCCUPATIONS	(15)	EJ117014	EJ156326	EJ167233	EJ172244	EJ173090			
TECHNICAL OCCUPATIONS	(11)	EJ102262							
*TECHNOLOGICAL ADVANCEMENT	(11)	EJ173090							
TECHNOLOGICAL ADVANCEMENT	(28)	EJ039219	EJ082014	EJ086828	EJ086829	EJ086830	EJ091776	EJ095084	
	(11)	EJ095084	EJ095085	EJ101634	EJ111984	EJ126432	EJ128200	EJ129379	
	(11)	EJ142420	EJ146490	EJ147040	EJ161140	EJ169166	EJ178113	EJ178314	
	(11)	EJ180189	EJ192847	EJ182473	EJ185489	EJ185490		EJ180156	
	(25)	EJ047847	EJ058842	EJ079425	EJ088411	EJ100022	EJ109896	EJ113773	
	(11)	EJ116546	EJ119455	EJ121645	EJ123229	EJ126651	EJ136654	EJ146486	
	(11)	EJ156459	EJ165221	EJ180163	EJ182144	EJ182250	EJ184578	EJ185346	
	(11)	EJ185476	EJ185864					EJ185401	
	(47)	EJ045124	EJ045124	EJ045904	EJ047847	EJ047847	EJ053616	EJ053617	
	(11)	EJ053617	EJ053619	EJ054231	EJ055962	EJ056254	EJ060449	EJ061170	
	(11)	EJ060449	EJ060451	EJ060453	EJ060455	EJ060457	EJ060459	EJ060461	
	(11)	EJ060463	EJ060465	EJ060467	EJ060469	EJ060471	EJ060473	EJ060475	
	(11)	EJ060477	EJ060479	EJ060481	EJ060483	EJ060485	EJ060487	EJ060489	
	(11)	EJ060491	EJ060493	EJ060495	EJ060497	EJ060499	EJ060501	EJ060503	
	(11)	EJ060505	EJ060507	EJ060509	EJ060511	EJ060513	EJ060515	EJ060517	
	(11)	EJ060519	EJ060521	EJ060523	EJ060525	EJ060527	EJ060529	EJ060531	
	(11)	EJ060533	EJ060535	EJ060537	EJ060539	EJ060541	EJ060543	EJ060545	
	(11)	EJ060547	EJ060549	EJ060551	EJ060553	EJ060555	EJ060557	EJ060559	
	(11)	EJ060561	EJ060563	EJ060565	EJ060567	EJ060569	EJ060571	EJ060573	
	(11)	EJ060575	EJ060577	EJ060579	EJ060581	EJ060583	EJ060585	EJ060587	
	(11)	EJ060589	EJ060591	EJ060593	EJ060595	EJ060597	EJ060599	EJ060601	
	(11)	EJ060603	EJ060605	EJ060607	EJ060609	EJ060611	EJ060613	EJ060615	
	(11)	EJ060617	EJ060619	EJ060621	EJ060623	EJ060625	EJ060627	EJ060629	
	(11)	EJ060631	EJ060633	EJ060635	EJ060637	EJ060639	EJ060641	EJ060643	
	(11)	EJ060645	EJ060647	EJ060649	EJ060651	EJ060653	EJ060655	EJ060657	
	(11)	EJ060659	EJ060661	EJ060663	EJ060665	EJ060667	EJ060669	EJ060671	
	(11)	EJ060673	EJ060675	EJ060677	EJ060679	EJ060681	EJ060683	EJ060685	
	(11)	EJ060687	EJ060689	EJ060691	EJ060693	EJ060695	EJ060697	EJ060699	
	(11)	EJ060701	EJ060703	EJ060705	EJ060707	EJ060709	EJ060711	EJ060713	
	(11)	EJ060715	EJ060717	EJ060719	EJ060721	EJ060723	EJ060725	EJ060727	
	(11)	EJ060729	EJ060731	EJ060733	EJ060735	EJ060737	EJ060739	EJ060741	
	(11)	EJ060743	EJ060745	EJ060747	EJ060749	EJ060751	EJ060753	EJ060755	
	(11)	EJ060757	EJ060759	EJ060761	EJ060763	EJ060765	EJ060767	EJ060769	
	(11)	EJ060771	EJ060773	EJ060775	EJ060777	EJ060779	EJ060781	EJ060783	
	(11)	EJ060785	EJ060787	EJ060789	EJ060791	EJ060793	EJ060795	EJ060797	
	(11)	EJ060799	EJ060801	EJ060803	EJ060805	EJ060807	EJ060809	EJ060811	
	(11)	EJ060813	EJ060815	EJ060817	EJ060819	EJ060821	EJ060823	EJ060825	
	(11)	EJ060827	EJ060829	EJ060831	EJ060833	EJ060835	EJ060837	EJ060839	
	(11)	EJ060841	EJ060843	EJ060845	EJ060847	EJ060849	EJ060851	EJ060853	
	(11)	EJ060855	EJ060857	EJ060859	EJ060861	EJ060863	EJ060865	EJ060867	
	(11)	EJ060869	EJ060871	EJ060873	EJ060875	EJ060877	EJ060879	EJ060881	
	(11)	EJ060883	EJ060885	EJ060887	EJ060889	EJ060891	EJ060893	EJ060895	
	(11)	EJ060897	EJ060899	EJ060901	EJ060903	EJ060905	EJ060907	EJ060909	
	(11)	EJ060911	EJ060913	EJ060915	EJ060917	EJ060919	EJ060921	EJ060923	
	(11)	EJ060925	EJ060927	EJ060929	EJ060931	EJ060933	EJ060935	EJ060937	
	(11)	EJ060939	EJ060941	EJ060943	EJ060945	EJ060947	EJ060949	EJ060951	
	(11)	EJ060953	EJ060955	EJ060957	EJ060959	EJ060961	EJ060963	EJ060965	
	(11)	EJ060967	EJ060969	EJ060971	EJ060973	EJ060975	EJ060977	EJ060979	
	(11)	EJ060981	EJ060983	EJ060985	EJ060987	EJ060989	EJ060991	EJ060993	
	(11)	EJ060995	EJ060997	EJ060999	EJ061001	EJ061003	EJ061005	EJ061007	
	(11)	EJ061009	EJ061011	EJ061013	EJ061015	EJ061017	EJ061019	EJ061021	
	(11)	EJ061023	EJ061025	EJ061027	EJ061029	EJ061031	EJ061033	EJ061035	
	(11)	EJ061037	EJ061039	EJ061041	EJ061043	EJ061045	EJ061047	EJ061049	
	(11)	EJ061051	EJ061053	EJ061055	EJ061057	EJ061059	EJ061061	EJ061063	
	(11)	EJ061065	EJ061067	EJ061069	EJ061071	EJ061073	EJ061075	EJ061077	
	(11)	EJ061079	EJ061081	EJ061083	EJ061085	EJ061087	EJ061089	EJ061091	
	(11)	EJ061093	EJ061095	EJ061097	EJ061099	EJ061101	EJ061103	EJ061105	
	(11)	EJ061107	EJ061109	EJ061111	EJ061113	EJ061115	EJ061117	EJ061119	
	(11)	EJ061121	EJ061123	EJ061125	EJ061127	EJ061129	EJ061131	EJ061133	
	(11)	EJ061135	EJ061137	EJ061139	EJ061141	EJ061143	EJ061145	EJ061147	
	(11)	EJ061149	EJ061151	EJ061153	EJ061155	EJ061157	EJ061159	EJ061161	
	(11)	EJ061163	EJ061165	EJ061167	EJ061169	EJ061171	EJ061173	EJ061175	
	(11)	EJ061177	EJ061179	EJ061181	EJ061183	EJ061185	EJ061187	EJ061189	
	(11)	EJ061191	EJ061193	EJ061195	EJ061197	EJ061199	EJ061201	EJ061203	
	(11)	EJ061205	EJ061207	EJ061209	EJ061211	EJ061213	EJ061215	EJ061217	
	(11)	EJ061219	EJ061221	EJ061223	EJ061225	EJ061227	EJ061229	EJ061231	
	(11)	EJ061233	EJ061235	EJ061237	EJ061239	EJ061241	EJ061243	EJ061245	
	(11)	EJ061247	EJ061249	EJ061251	EJ061253	EJ061255	EJ061257	EJ061259	
	(11)	EJ061261	EJ061263	EJ061265	EJ061267	EJ061269	EJ061271	EJ061273	
	(11)	EJ061275	EJ061277	EJ061279	EJ061281	EJ061283	EJ061285	EJ061287	
	(11)	EJ061289	EJ061291	EJ061293	EJ061295	EJ061297	EJ061299	EJ061301	
	(11)	EJ061303	EJ061305	EJ061307	EJ061309	EJ061311	EJ061313	EJ061315	
	(11)	EJ061317	EJ061319	EJ061321	EJ061323	EJ061325	EJ061327	EJ061329	
	(11)	EJ061331	EJ061333	EJ061335	EJ061337	EJ061339	EJ061341	EJ061343	
	(11)	EJ061345	EJ061347	EJ061349	EJ061351	EJ061353	EJ061355	EJ061357	
	(11)	EJ061359	EJ061361	EJ061363	EJ061365	EJ061367	EJ061369	EJ061371	
	(11)	EJ061373	EJ061375	EJ061377	EJ061379	EJ061381	EJ061383	EJ061385	
	(11)	EJ061387	EJ061389	EJ061391	EJ061393	EJ061395	EJ061397	EJ061399	
	(11)	EJ061401	EJ061403	EJ061405	EJ061407	EJ061409	EJ061411	EJ061413	
	(11)	EJ061415	EJ061417	EJ061419	EJ061421	EJ06			

TECHNOLOGY	(54)	EJ008406	EJ020156	EJ023386	EJ037159	EJ037160	EJ042297	EJ044233
	EJ044234	EJ044127	EJ060529	EJ061005	EJ067226	EJ067228	EJ067229	EJ067230
	EJ074478	EJ080340	EJ082034	EJ084352	EJ091778	EJ095084	EJ095282	EJ101639
	EJ104751	EJ104752	EJ106482	EJ109840	EJ109816	EJ111501	EJ116502	EJ116503
	EJ118124	EJ114888	EJ121417	EJ121423	EJ123177	EJ123212	EJ124827	EJ126254
	EJ126651	EJ120189	EJ128401	EJ130018	EJ130088	EJ136861	EJ140044	EJ143463
	EJ143467	EJ147621	EJ151847	EJ182150	EJ185410	EJ185424	EJ185916	
*TEMPERATURE	(2)	EJ089429	EJ180160					
TEMPERATURE	(6)	EJ015034	EJ020644	EJ027033	EJ029732	EJ113296	EJ162208	
TEXTBOOKS	(1)	EJ121423						
THEMATIC APPROACH	(2)	EJ033627	EJ178611					
*THEORIES	(2)	EJ023376	EJ128404					
THEORIES	(3)	EJ020653	EJ086734	EJ086417				
*THERMAL ENVIRONMENT	(11)	EJ045992	EJ051742	EJ053159	EJ073062	EJ104104	EJ124216	EJ129306
	EJ150004	EJ134432	EJ162588	EJ165851				
THERMAL ENVIRONMENT	(16)	EJ017209	EJ047298	EJ052945	EJ083246	EJ084491	EJ104169	EJ113181
	EJ118144	EJ119454	EJ121600	EJ130014	EJ131551	EJ133245	EJ145883	EJ150176
	EJ170765							
THERMAL STORAGE	(1)	EJ098583						
*THERMODYNAMICS	(13)	EJ015034	EJ020653	EJ037833	EJ041170	EJ041764	EJ116616	EJ119602
	EJ119954	EJ130018	EJ136819	EJ136823	EJ176292	EJ185830		
THERMODYNAMICS	(9)	EJ027033	EJ063408	EJ068810	EJ070346	EJ073696	EJ113296	EJ123410
	EJ130247	EJ169146						
*THERMONUCLEAR FUSION	(1)	EJ085166						
THESAURI	(1)	EJ134764						
*TIDES	(1)	EJ185492						
*TIME	(1)	EJ185589						
TIME	(1)	EJ182292						
TOKAMAKS	(1)	EJ085166						
*TOTAL ENERGY SYSTEMS	(1)	EJ116453						
*TOYS	(1)	EJ168491						
*TRAFFIC PATTERNS	(3)	EJ088334	EJ123231	EJ123232				
TRAINABLE MENTALLY HANDICAPPED	(1)	EJ124116						
TRAINEES	(1)	EJ167233						
TRAINING	(1)	EJ113773						
TRANSLATION	(1)	EJ114342						
*TRANSPORTATION	(12)	EJ046543	EJ055962	EJ060944	EJ060974	EJ074471	EJ114905	EJ123230
	EJ123231	EJ123232	EJ128189	EJ165849	EJ174226			
TRANSPORTATION	(9)	EJ088334	EJ094585	EJ095040	EJ101539	EJ109840	EJ150642	EJ152150
	EJ176444							
TRAVEL	(1)	EJ088334						
TREES	(1)	EJ136480						
*TREND ANALYSIS	(3)	EJ067227	EJ079425	EJ089550				
TREND ANALYSIS	(2)	EJ045125	EJ045126					
TURKEY	(1)	EJ162588						
*UDALL (MORRIS K)	(1)	EJ163106						
UNDERGRADUATE STUDY	(1)	EJ130210						
*UNDERGROUND BUILDINGS	(9)	EJ124334	EJ129376	EJ164156	EJ165844	EJ169751	EJ169858	EJ183176
	EJ183177	EJ183178						
UNDERGROUND BUILDINGS	(1)	EJ150176						
UNDERGROUND POWER LINES	(1)	EJ067230						
*UNEMPLOYMENT	(2)	EJ102162	EJ102163					
UNEMPLOYMENT	(3)	EJ040800	EJ102303	EJ185517				
UNIFIED STUDIES PROGRAMS	(2)	EJ024076	EJ104489					
*UNITED KINGDOM	(1)	EJ185495						
UNITED KINGDOM	(1)	EJ104896						
*UNITED STATES	(1)	EJ123411						
UNITED STATES	(1)	EJ154210						
*UNITED STATES ATOMIC ENERGY COMMISSION	(1)	EJ017116						
*UNITED STATES HISTORY	(1)	EJ084428						
*UNIT PLAN	(1)	EJ083248						
UNIT PLAN	(1)	EJ160054						
*UNITS OF STUDY	(1)	EJ180157						
*UNITS OF STUDY (SUBJECT FIELDS)	(1)	EJ135077						
UNITS OF STUDY (SUBJECT FIELDS)	(2)	EJ088582	EJ093638					
UNIVERSITIES	(3)	EJ092650	EJ099437	EJ102609				
*UNIVERSITY LIBRARIES	(1)	EJ148542						
UNIVERSITY LIBRARIES	(1)	EJ181468						
*UNIVERSITY OF AKRON	(1)	EJ164178						
*UNIVERSITY OF CONNECTICUT	(2)	EJ181446	EJ181448					
*UNIVERSITY OF FLORIDA	(1)	EJ150176						

*UNIVERSITY OF ILLINOIS	(11)	EJ175892							
*UNIVERSITY OF MINNESOTA	(14)	EJ158795	EJ164858	EJ170142	EJ183178				
*UNIVERSITY OF NORTH CAROLINA	(11)	EJ157030							
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